Reverb Usage Guide

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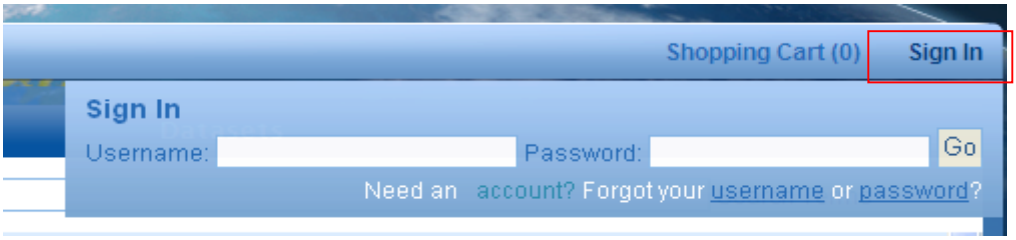
1 Quick Start

The purpose of this guide is to provide steps on how to use the basic Reverb functions. The guide will cover how to Login, search using Dataset Search Terms, Granule Search, Add Item(s) to the Cart, Ordering and Bulk Downloading.

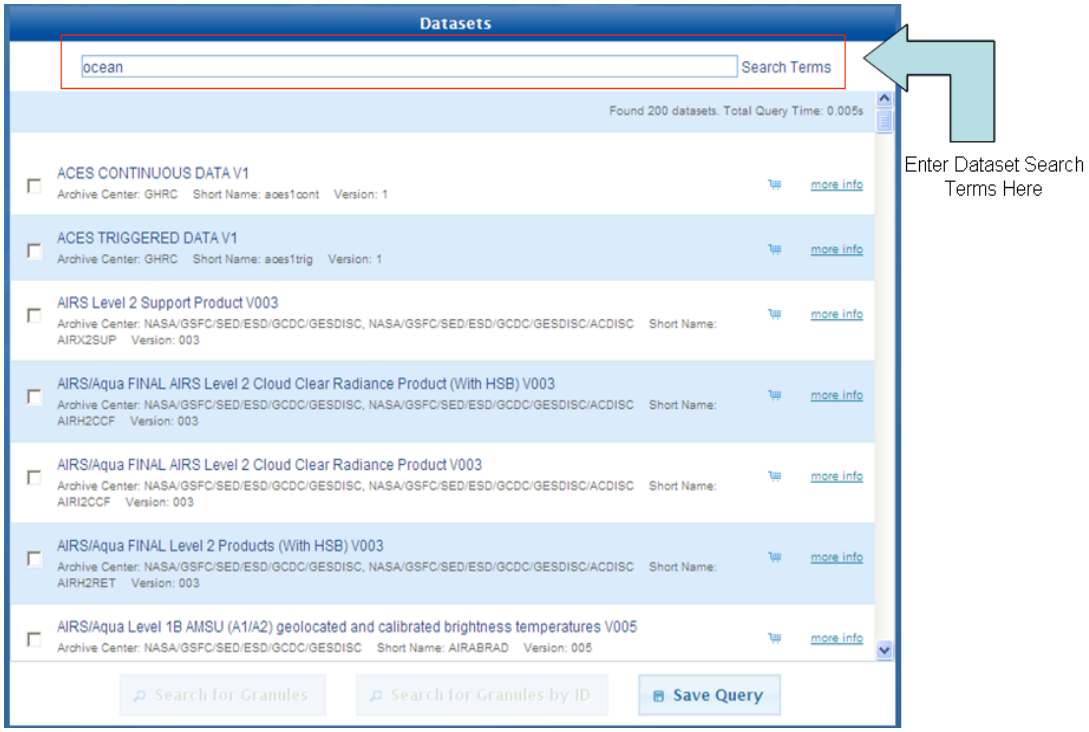
1.1 Login

To login to your reverb account, select 'Sign In'. Enter your username and password, and press the enter key. You are now logged into your reverb account.



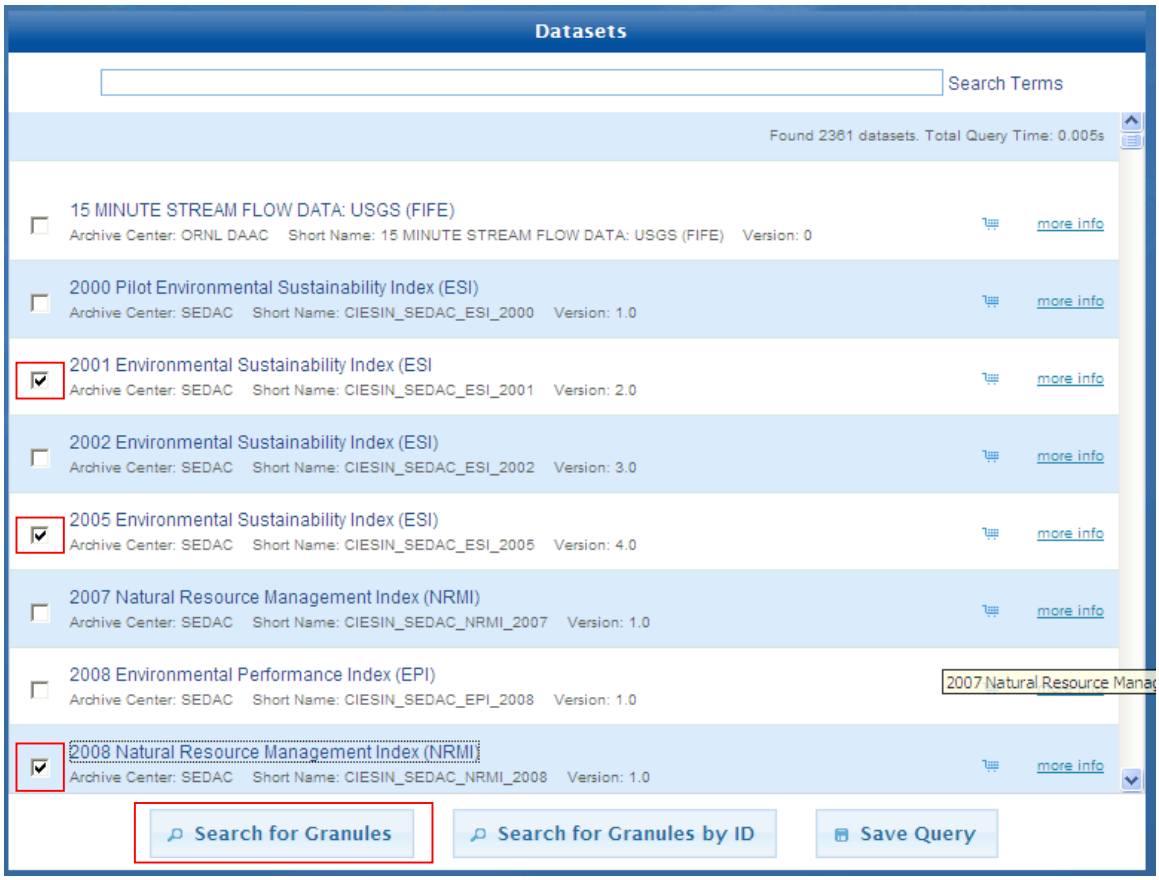
1.2 Dataset Search Term

To begin your search using Dataset Search Terms, enter earth, atmosphere, ocean, or land science terms into the Text Search Box. You can also enter the dataset name or the dataset's provider. Then press the Enter key and the datasets will begin loading. Partial text matching is currently unavailable.

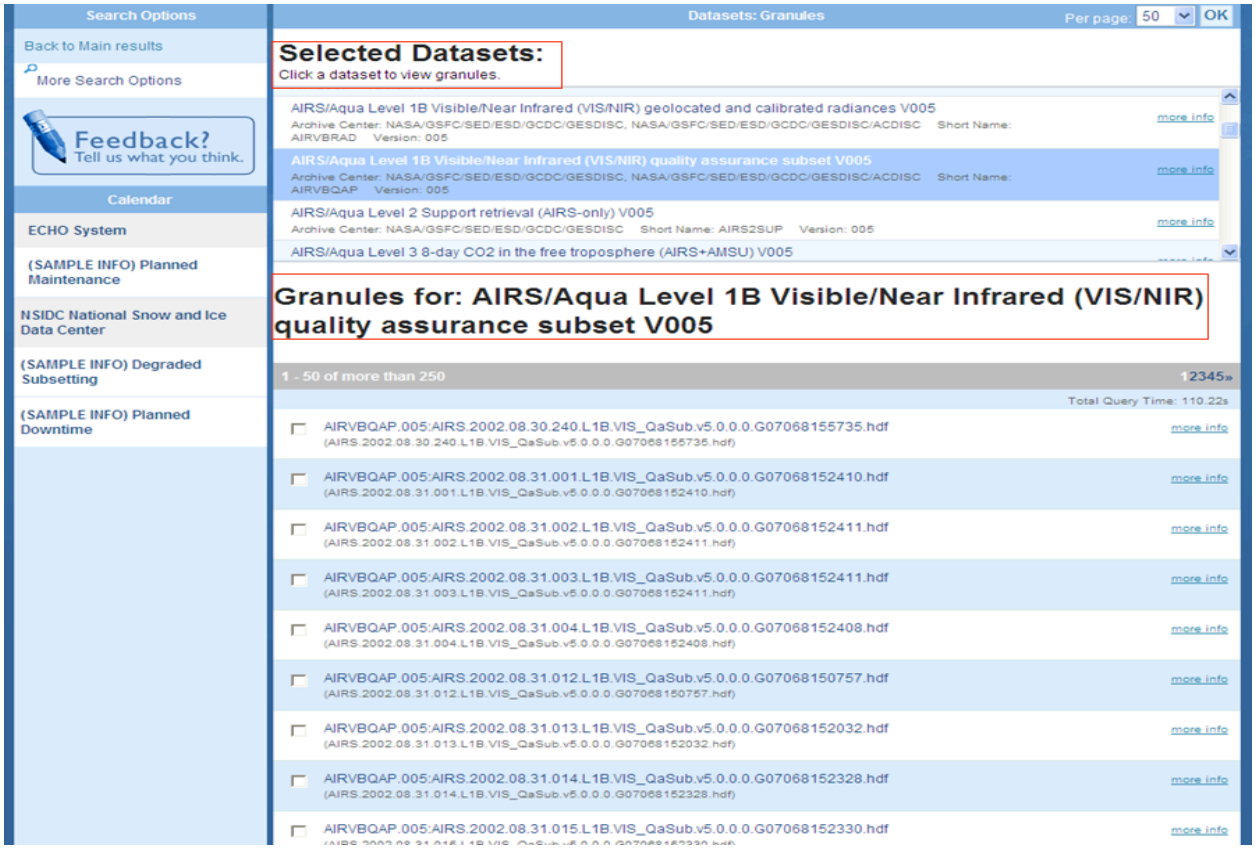


1.3 Granule Search

Select the desired datasets and click ‘Search for Granules’.

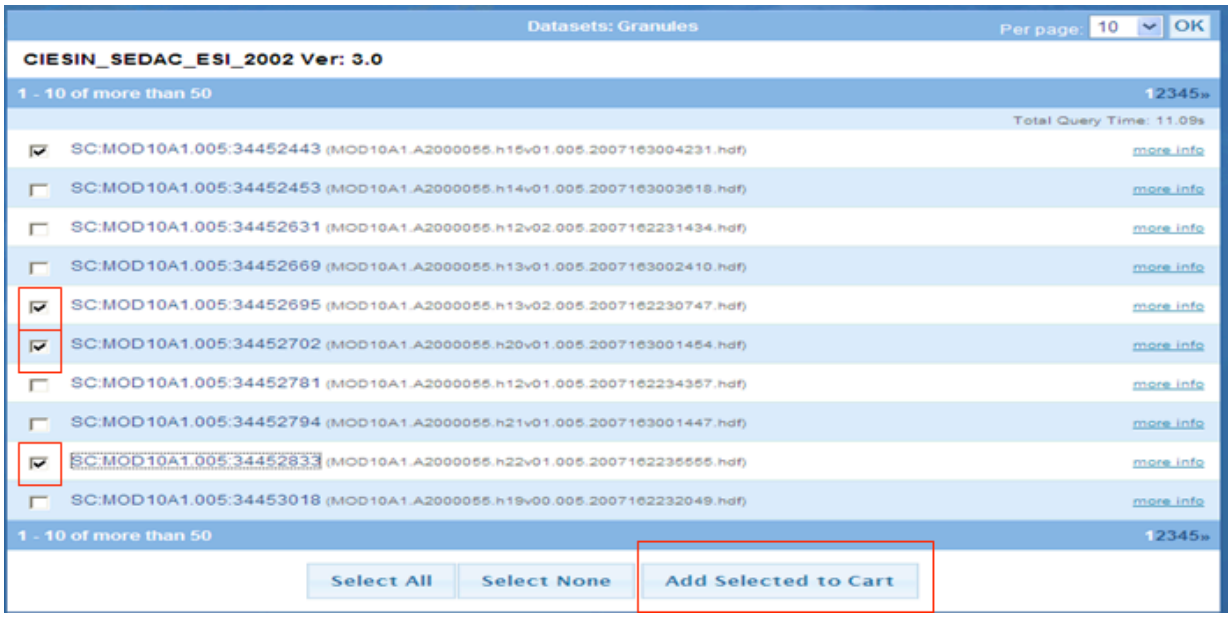


granules. To see a list of individual granules for a dataset, click the dataset name under the 'Selected Datasets'.



1.4 Add Items to Cart

To add an item to the shopping cart, after searching for granules select the item you wish to add. Click ‘Add Selected to Cart’, located at the bottom of the list of granules. A confirmation box should appear with the following message “Selected items have been added to your cart”. Once item(s) are added to the cart, you can order or download the granule(s). All granules are not orderable, some are downloadable only.

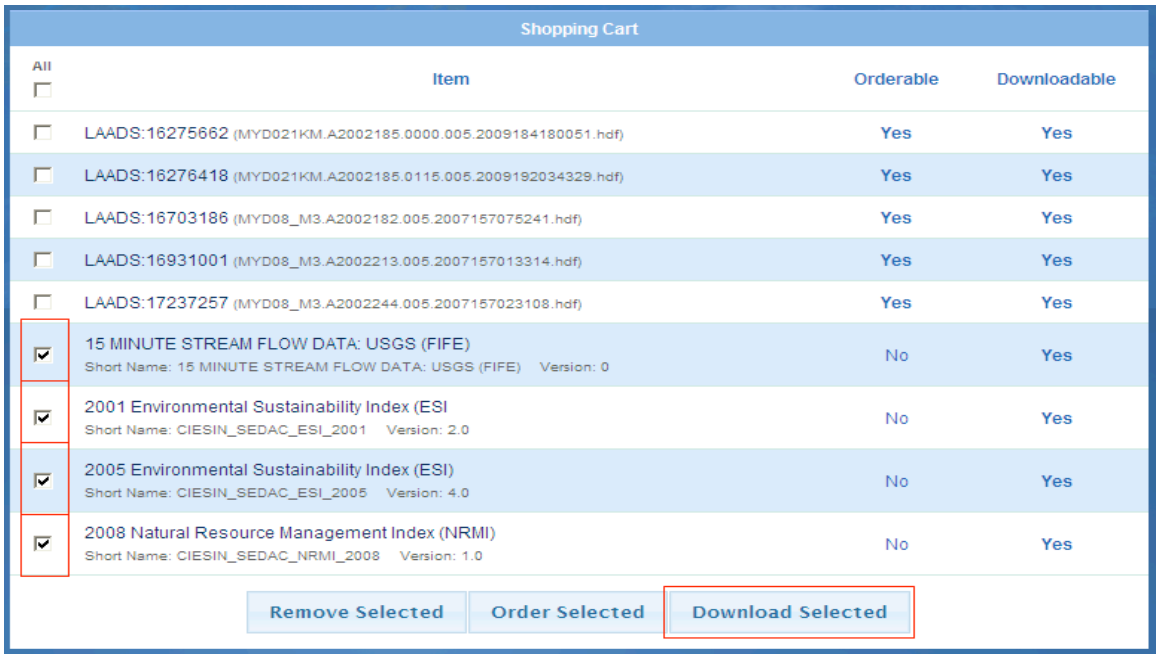


1.5 Ordering

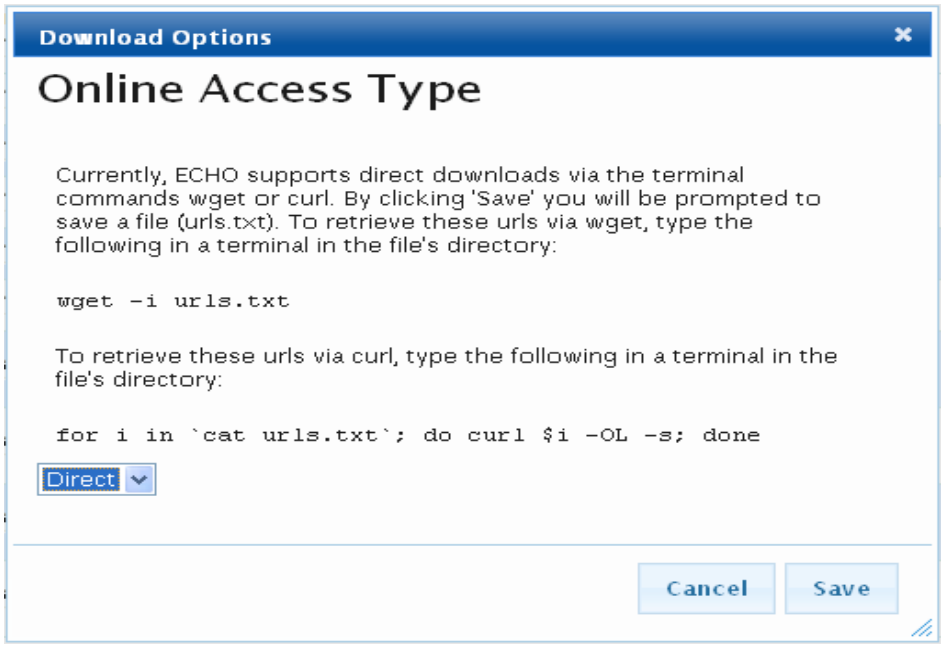
Some granules are orderable and can be ordered after the granules are added to the cart. From the shopping cart select the granule(s) you wish to order and click 'Order Selected'. You will then be prompted with ordering instructions based on the granule you're ordering.

1.6 Bulk Download

Some granules are downloadable and can be downloaded in bulk. From the shopping cart select the downloadable granules that you wish to download. Click ‘Download Selected’.



The Download Option screen should appear with instructions on how to download the granule(s).



2 Full Reverb Tutorial

2.1 Create an Account

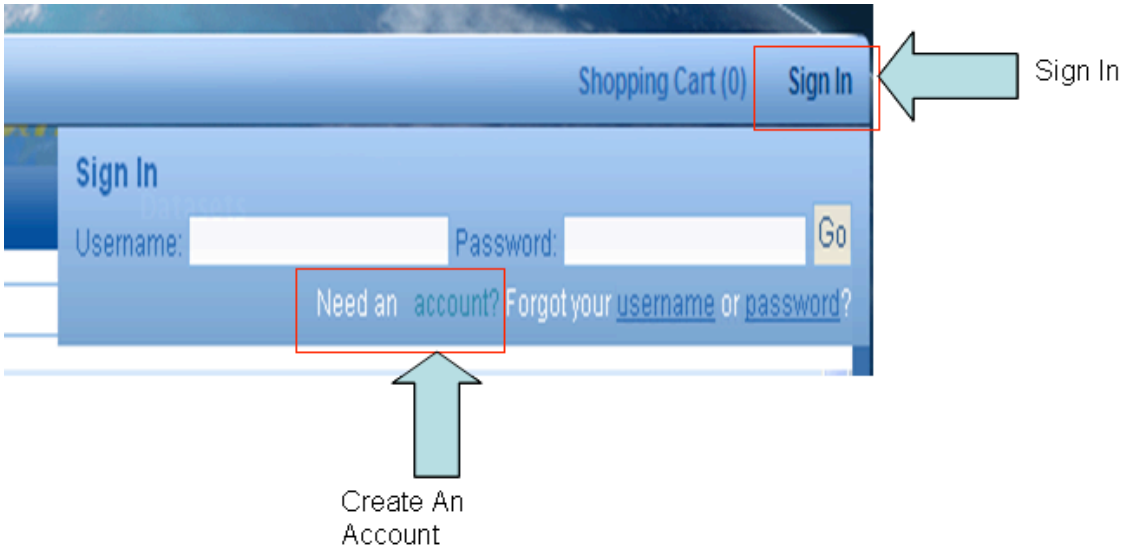
By default you are a guest user when you enter Reverb. On the main search form you have the option of either creating a new account or logging on to an existing Reverb account.

The vast majority of the data in Reverb is available to both guest and registered users. However, some registered users may have access to restricted data that can not be searched or ordered by guest users. The data provider will add your Reverb account to their ACL (access control list) if you need access to restricted data.

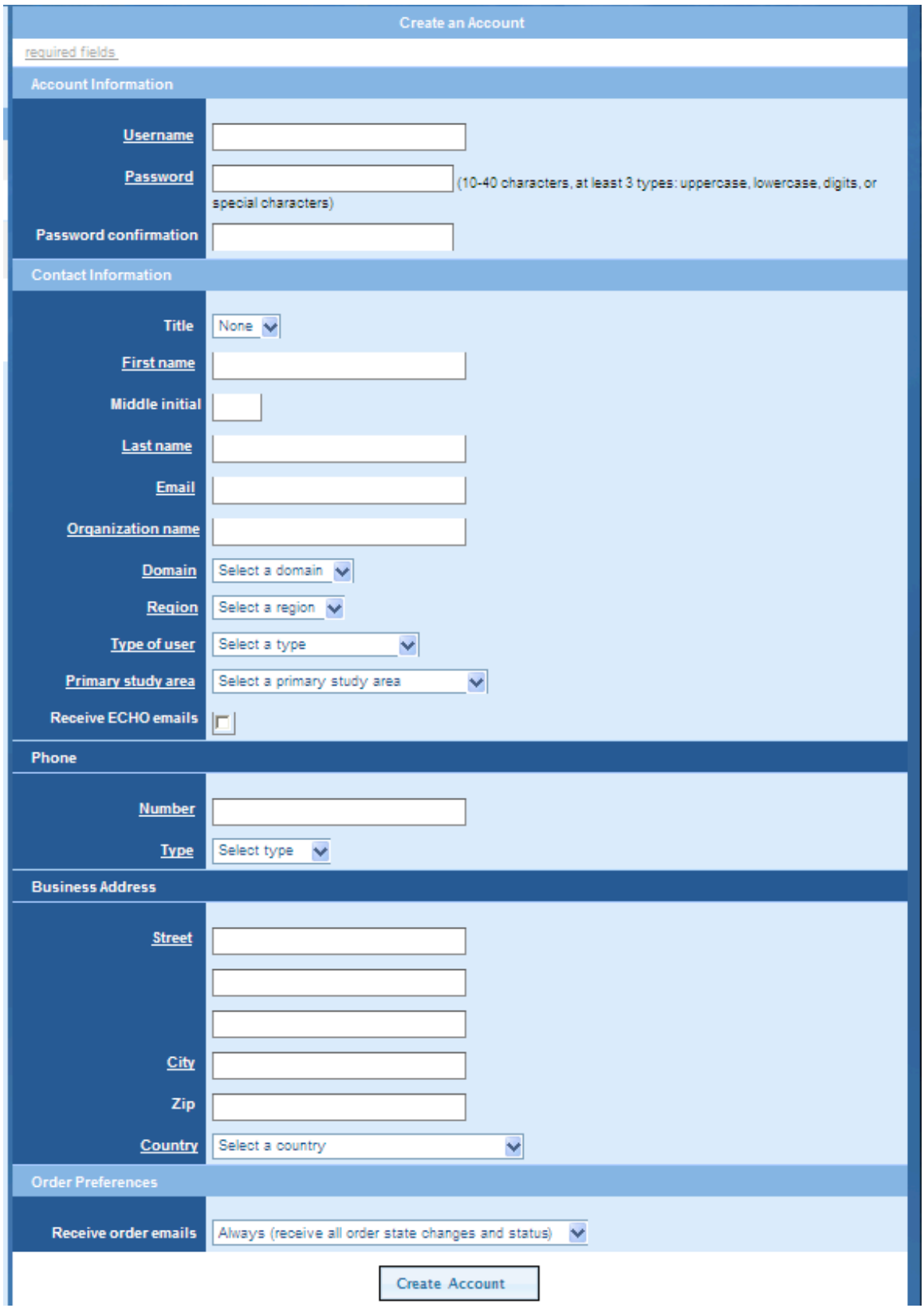
Guest users are given a temporary session which is cleaned up after several hours of inactivity. If you would like for your queries, search results and shopping cart to be saved between sessions, then become a registered user by creating a Reverb account.

Note: If you already have a WIST account you do not need to reregister in Reverb. Just click on the Login link and enter your WIST username and password.

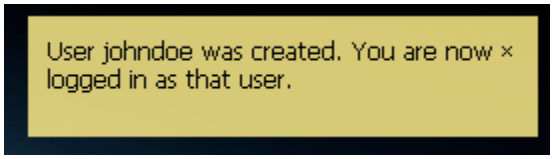
To become a registered user, click on the **Sign In** link on the front page. Then click on the **Need an account** link.



The **User Registration** form is displayed. When finished, click the **Create Account** button.

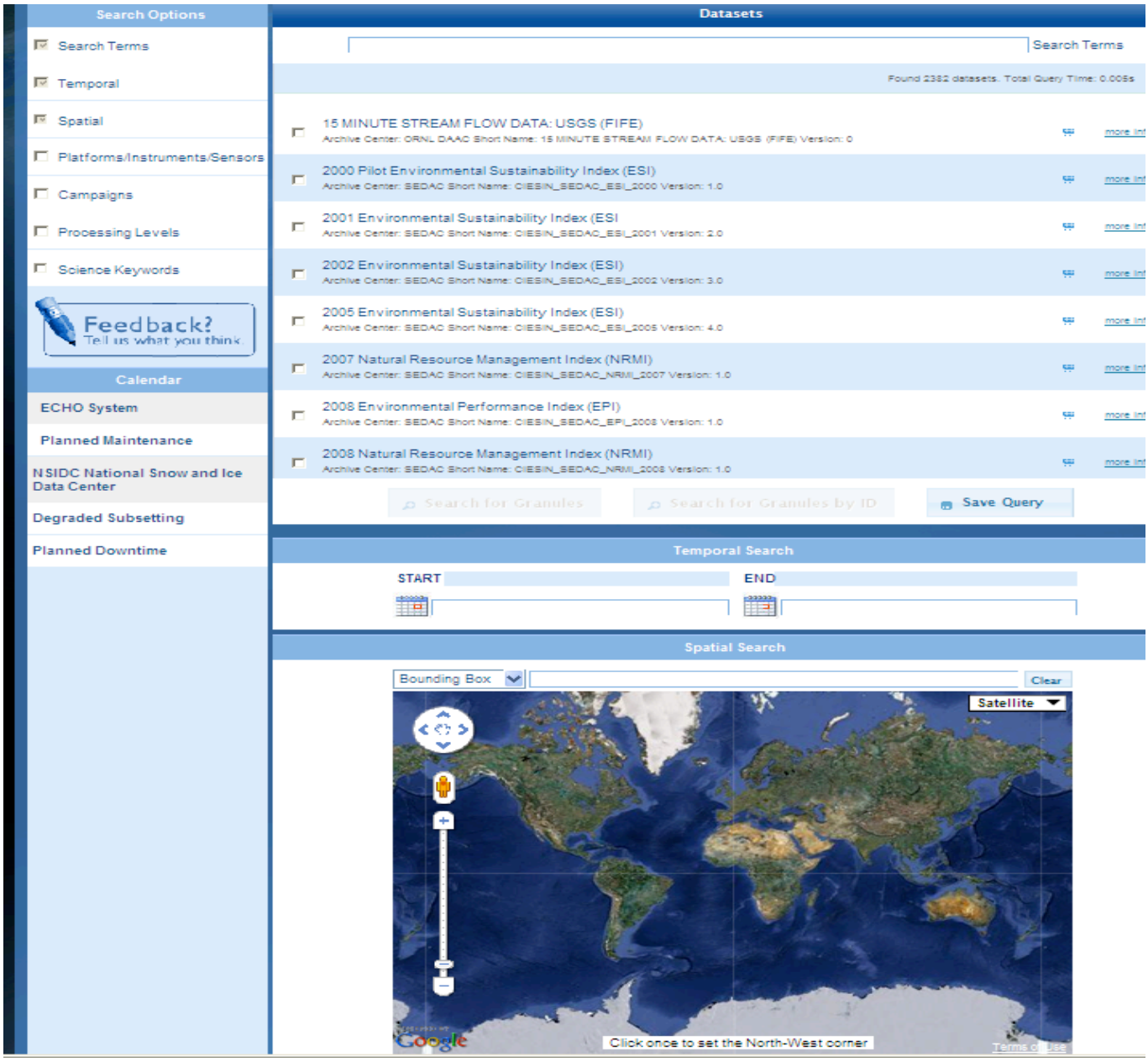


You'll then get this confirmation screen that reports the successful creation of your account. Please record your user account name at this point. You'll need it to be able to sign in.



2.2 Searching

First, let's look at an overview of the search page. The purpose of the main page is to identify datasets which are relevant to the user's criteria. The criteria that the user is entering for dataset filtering will translate into granule discovery. As filters are chosen, the dataset listing will be modified accordingly. If there's no criteria provided, then no filtering will be applied to the granule results.



The Primary Data Search is initially divided into three major parts:

1) Search Terms & Filtered Dataset Listing
2) Spatial Search
3) Temporal Search

Users may also use the following **Search Options**:

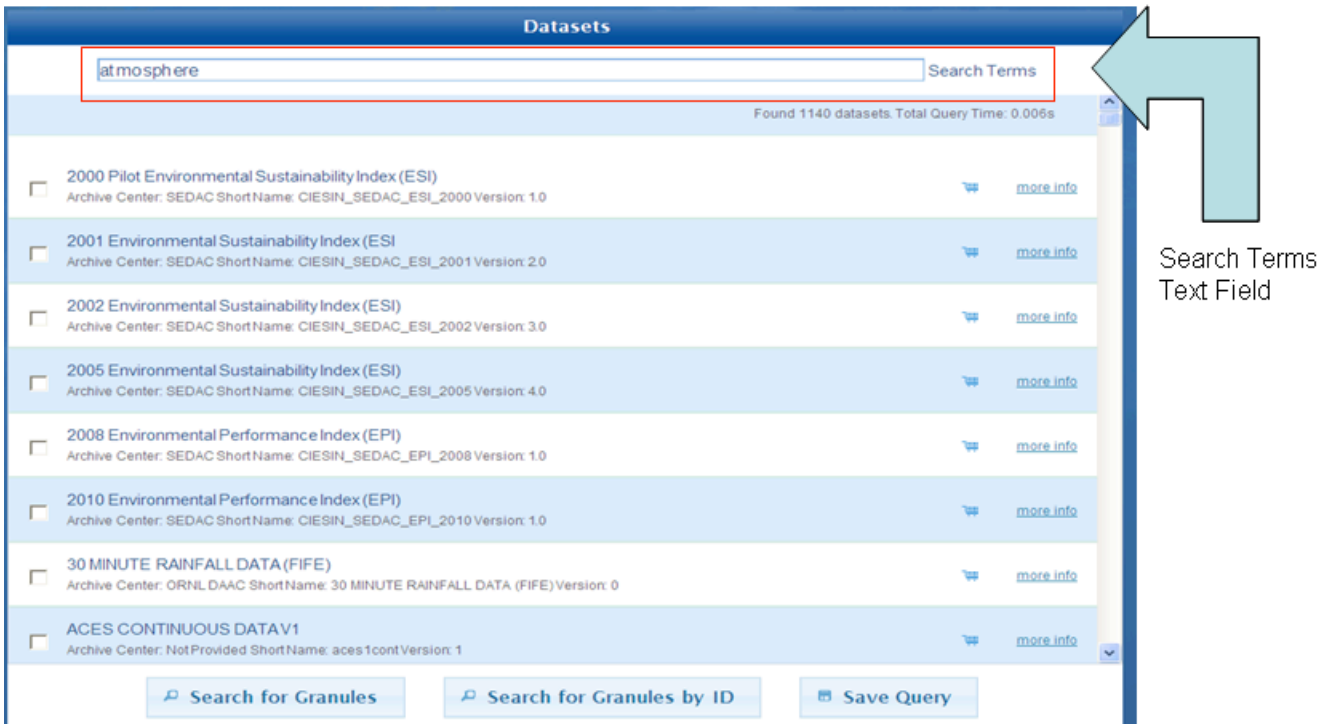
4) Platforms/Instruments/Sensors
5) Campaigns
6) Processing Levels
7) Science Keywords

2.2.1 Search Terms & Filtered Dataset Listing (Required)

2.2.1.1 Search Terms

Search terms are used to filter datasets according to the users entered text. The user's search terms are searched against targeted fields within the dataset metadata. To begin your search using **Search Terms**, enter earth, atmosphere, ocean, or land science terms into the Text Search Box. You can also enter the dataset name or the dataset's provider. Then press the Enter key. ***Note:** Partial text matching is not currently provided.

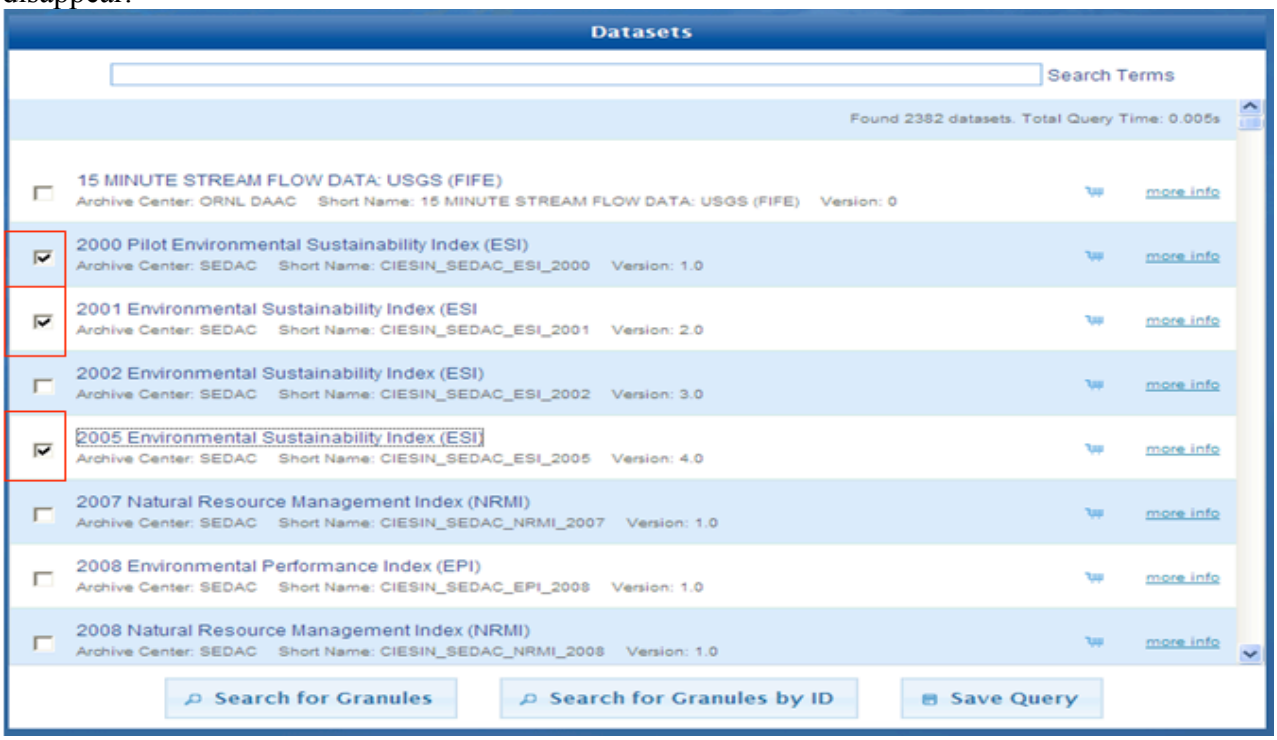
This feature provides a quick method for identifying dataset of interest. It lists those dataset that not only have the term in their name but also those that are scientifically relevant to the term you entered.



2.2.1.2 Dataset Selection

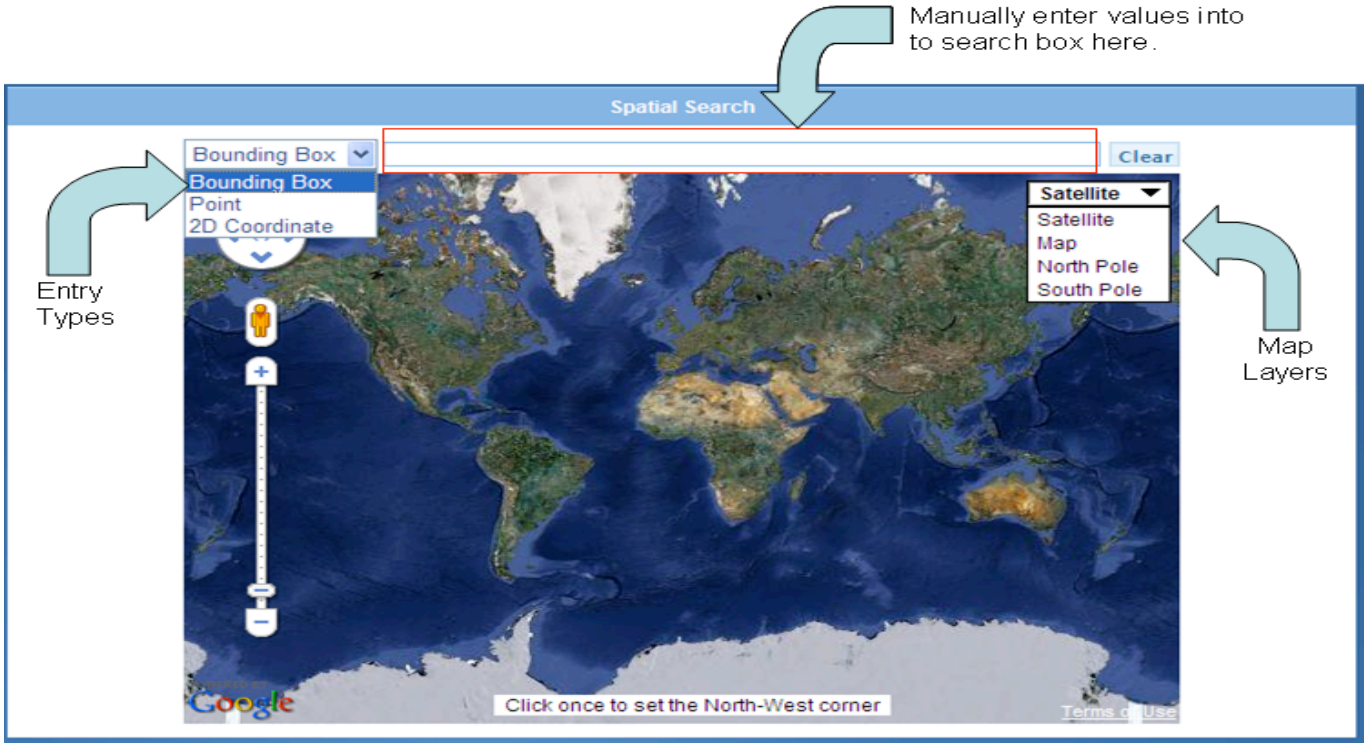
Next to each dataset there's a check box on left side. Click the check box for each dataset you would like to search. A check mark symbol should appear in the box. If you no longer want to search a selected dataset, click the box and the check mark symbol should

disappear.



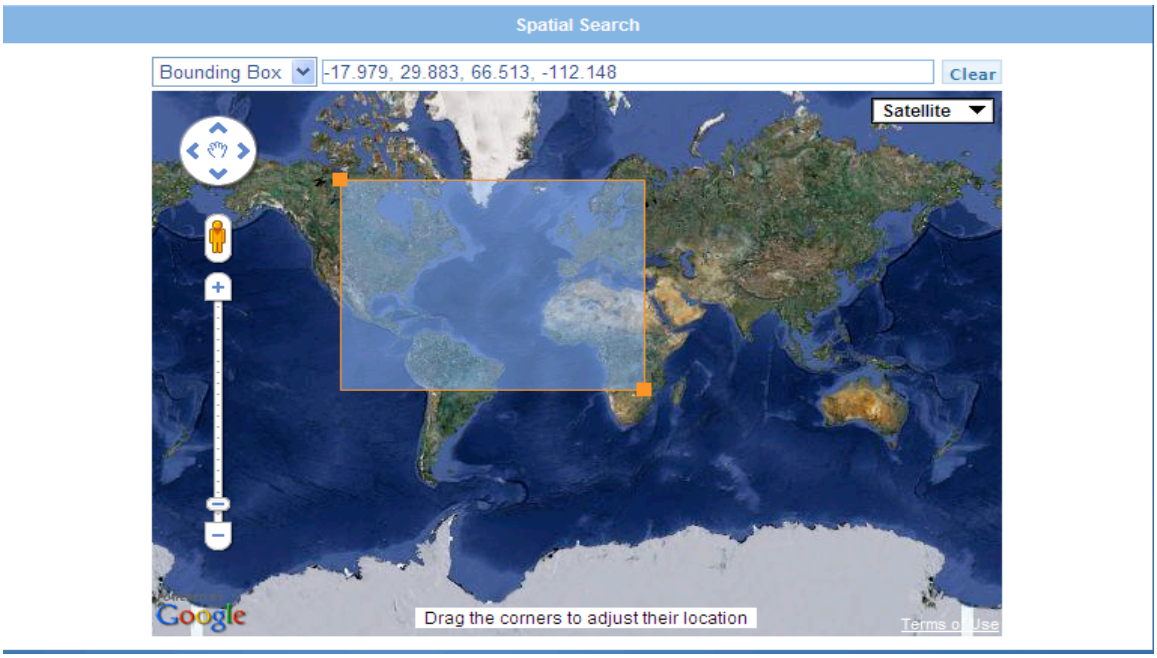
2.2.2 Spatial Search (Optional)

Select a geographic region of interest in the spatial section.

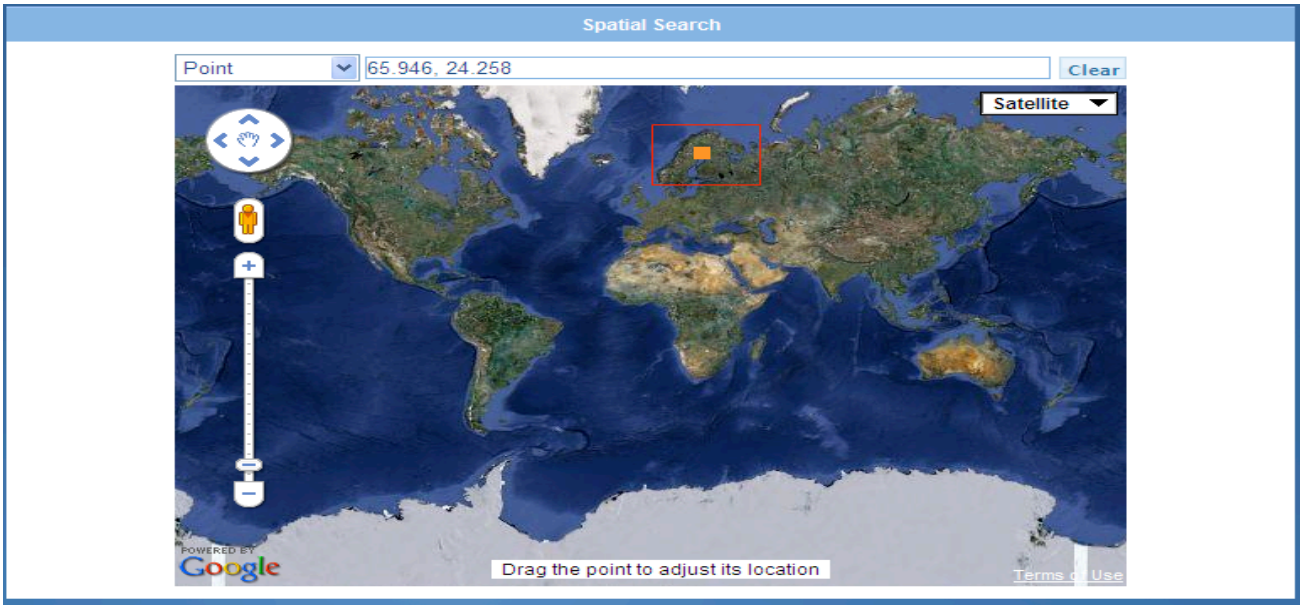


The Reverb provides several different spatial search options. They are:

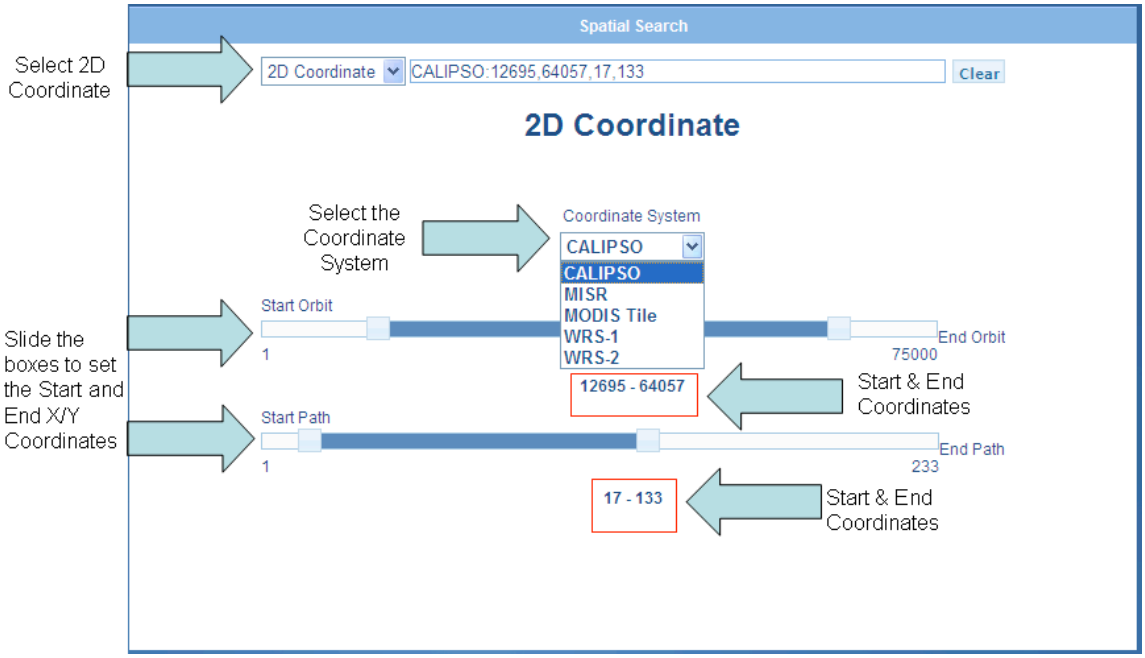
1. ***Bounding Box***, which allows the user to search for granules within a specific area; **Step 1:** Select **Bounding Box** from the entry type and select the map layer. **Step 2:** Click once to set the North-West corner. **Step 3:** Click again to set the South-East corner. **Step 4:** Drag the corners to adjust their location.



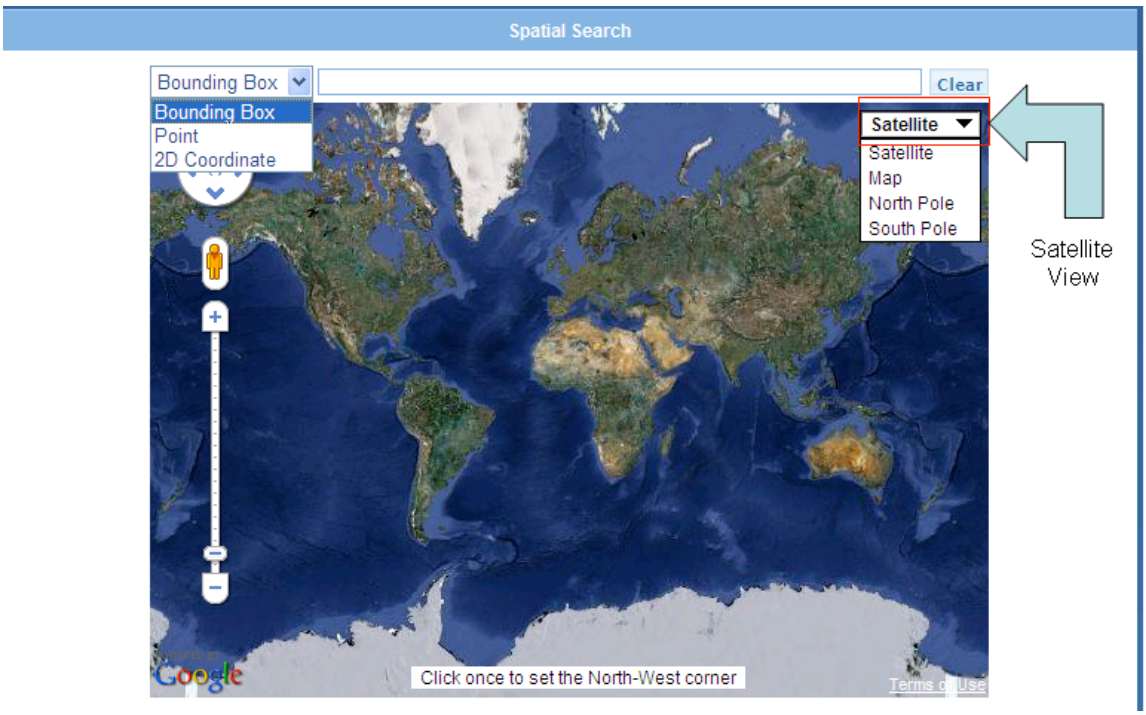
2. ***Point***, allows the user to search for granule at a particular point. **Step 1:** Select **Point** from the entry type and select the map layer. **Step 2:** Click once to set a spatial point. **Step 3:** Drag the point to adjust its location.



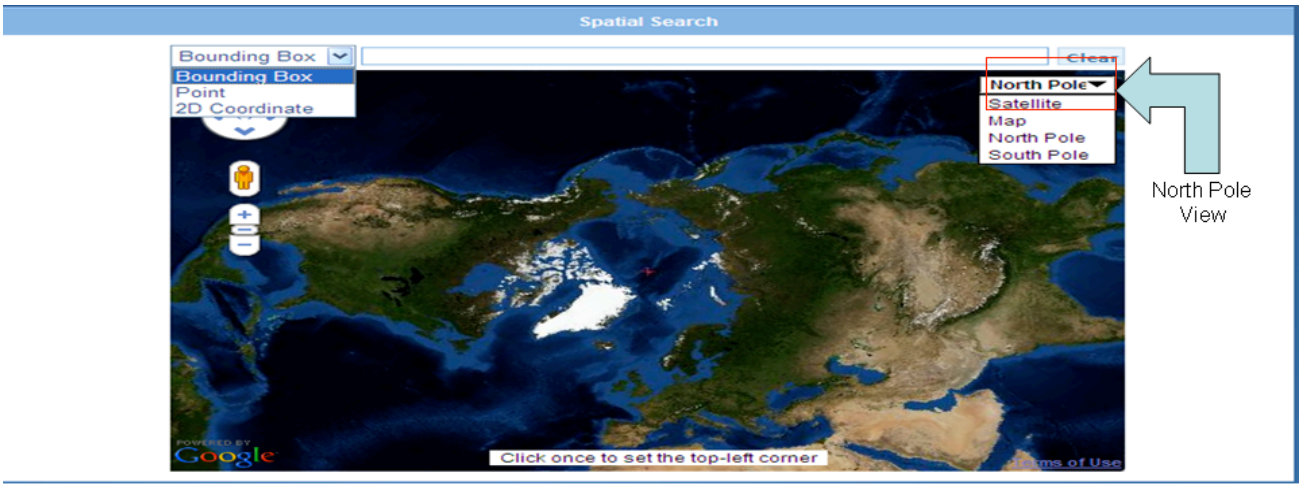
3. ***2D Coordinates***, The data providers may choose to utilize a 2D coordinate system, for granules. **Step 1:** Select 2D Coordinate from the entry type and the map layer. **Step 2:** Select the coordinate system. **Step 3:** Slide the boxes to set the Start and End X/Y Coordinates.

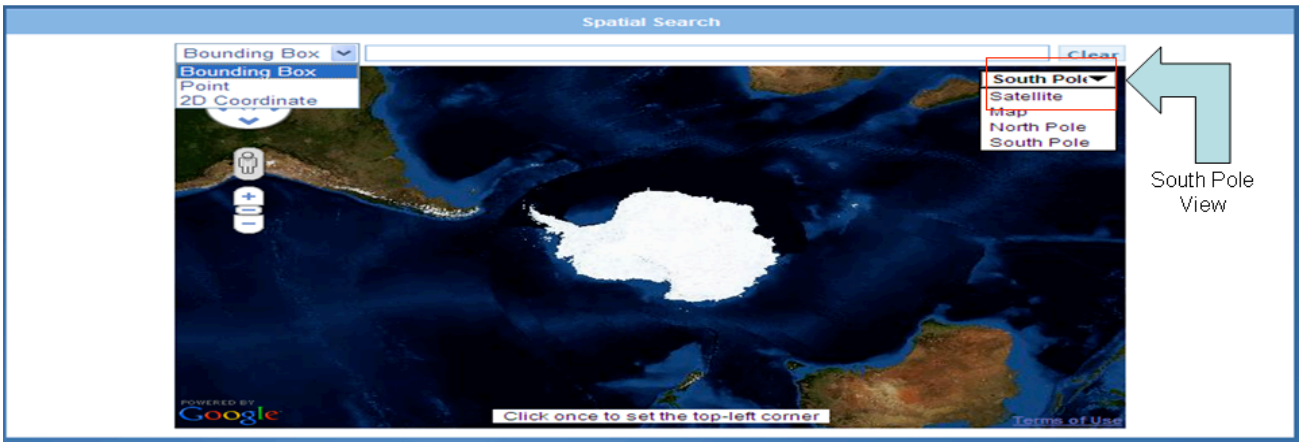


4. ***Satellite Map Search***, which is useful for selecting smaller and highly specific geographic regions;



5. ***Global Search***, which allows the user to receive information from all granules where the search topic is mentioned;
6. ***Stereographic North and South Pole Maps,*** which allow for searching over the North and South Poles, respectively and

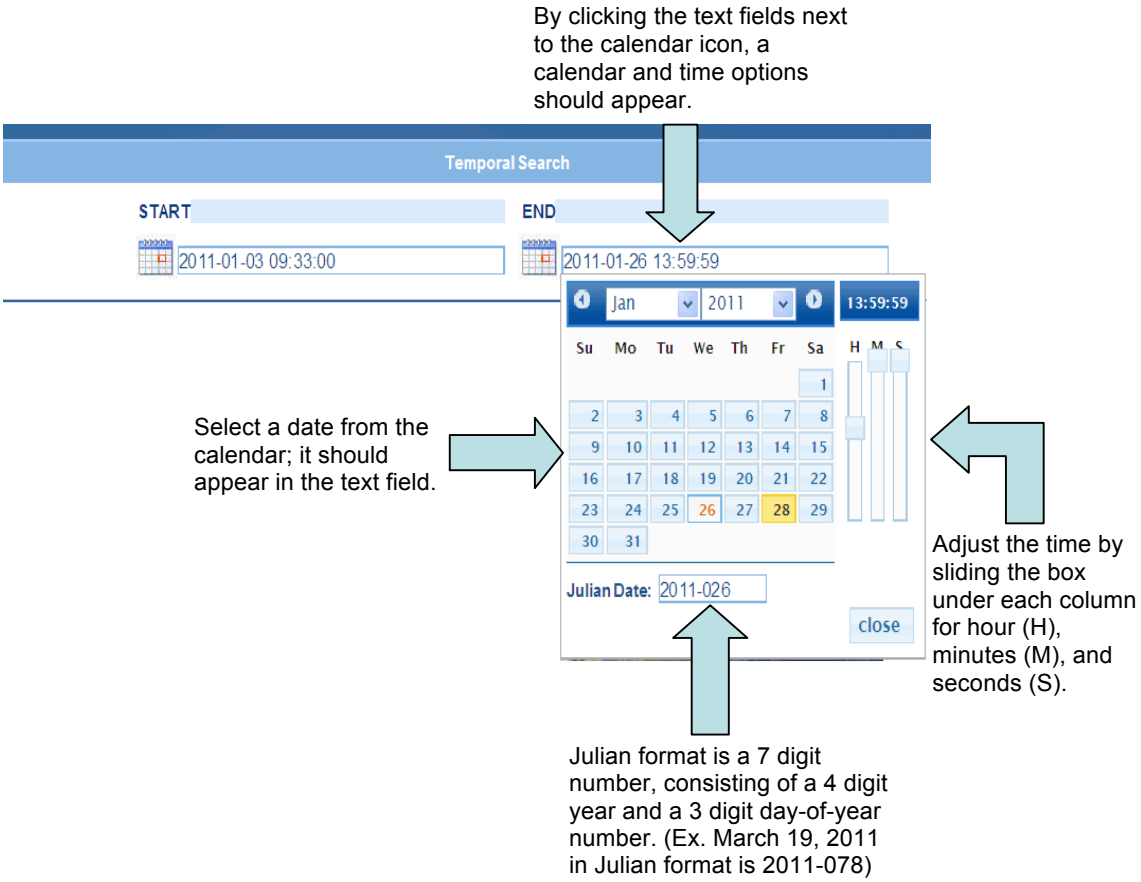




7. ***Orbit Search***, search for orbital (swath) data using various orbital parameters. (**TBD**)
8. The Reverb also allows the user to enter specific coordinates of a ***Latitude/Longitude Range***, a ***Latitude/Longitude Point*** and ***X/Y Coordinate Range for WRS Path/Row***.

2.2.3 Temporal Search (Optional)

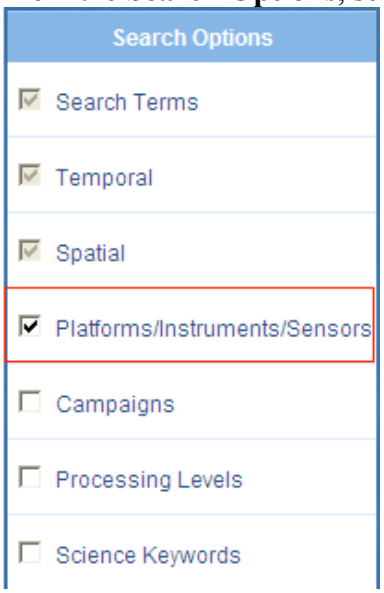
Date and Time ranges can be entered to refine your search. Dates can be entered into the text field manually in standard date format, Julian format or by selecting from the calendar provided. The standard date format requires that the user enter year, month, and day of the month to be specified as shown below.



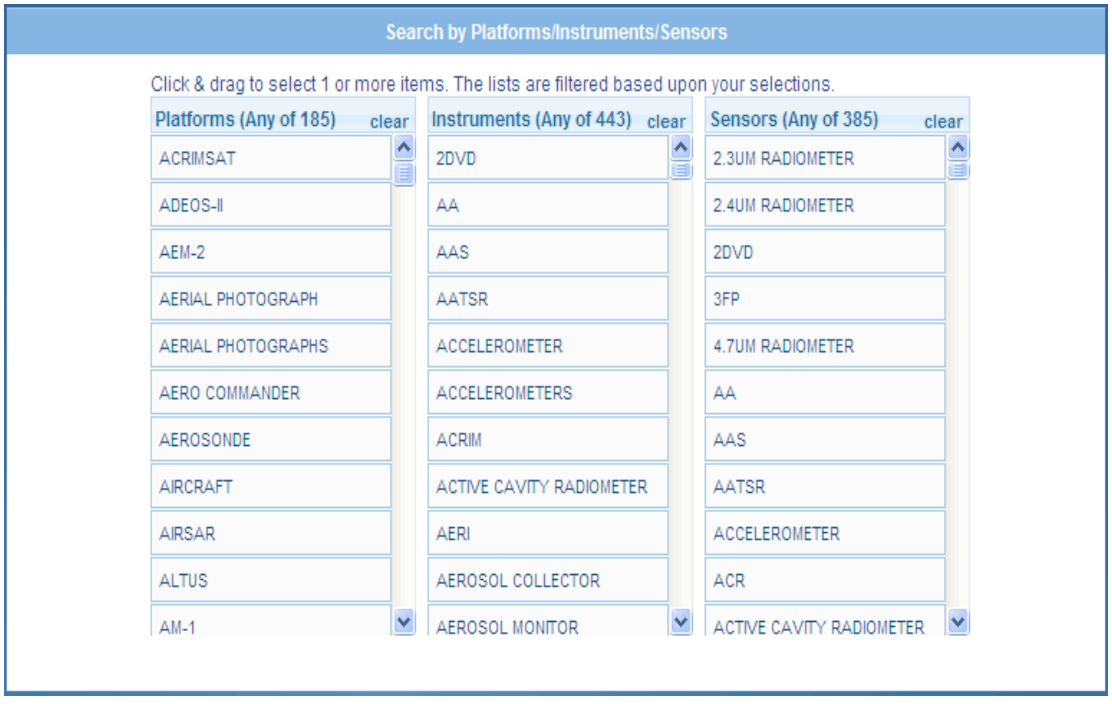
*Note: Datasets which have not provided a temporal range will not be included in filtered results if a temporal range is provided.

2.2.4 Platforms/Instruments/Sensors (Optional)

From the **Search Options**, select **Platforms/Instruments/Sensors.**

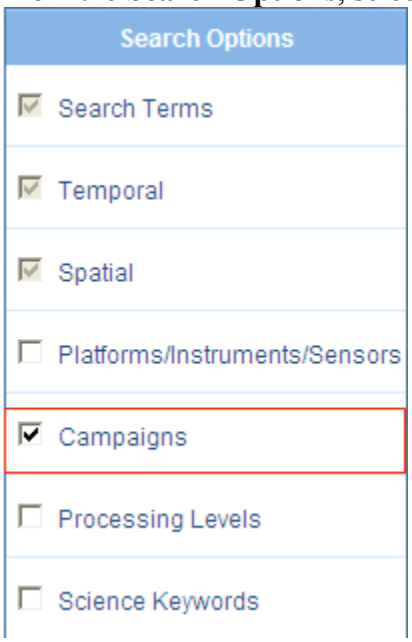


The selection of platforms/instruments/sensors will appear at the bottom portion of the screen, underneath 'Spatial Search'. Make a selection by clicking the desired **Platform(s), Instruments(s) or Sensor(s)**. Based on the selected subset, the list will be filtered. (E.g. If you select a subset from platforms, the instruments and sensors subsets will be filtered. Selecting a subset of the filtered instruments will further filter the sensor list. Filtering also works in the opposite direction as well.) Click and drag to select more than one item. After making your final selections the datasets associated will be filtered.

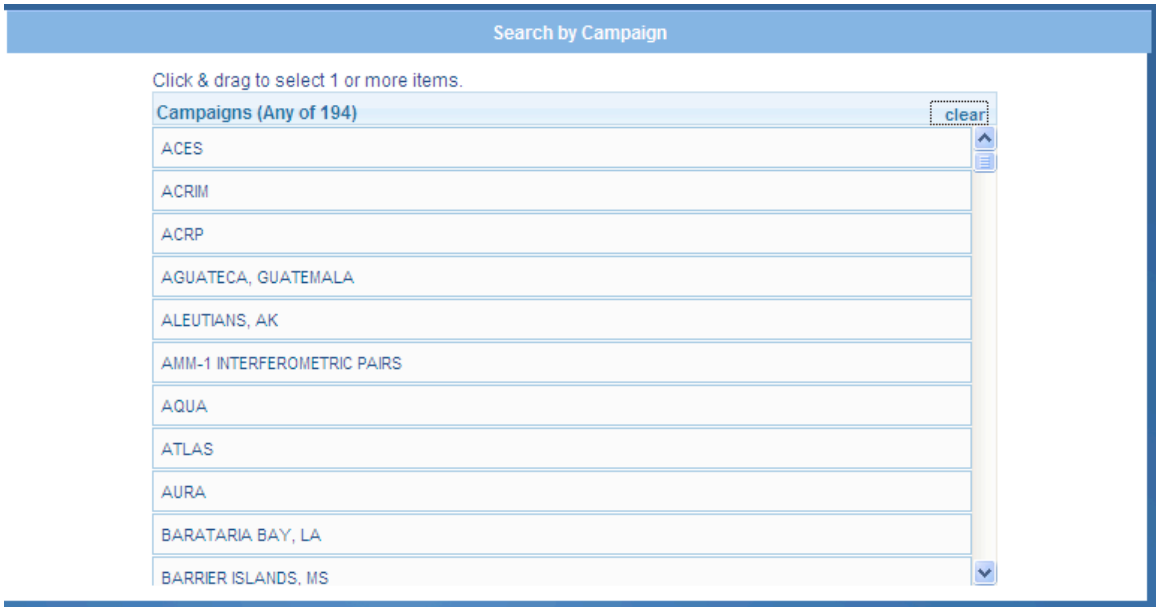


2.2.5 Campaigns (Optional)

From the **Search Options**, select **Campaigns**.

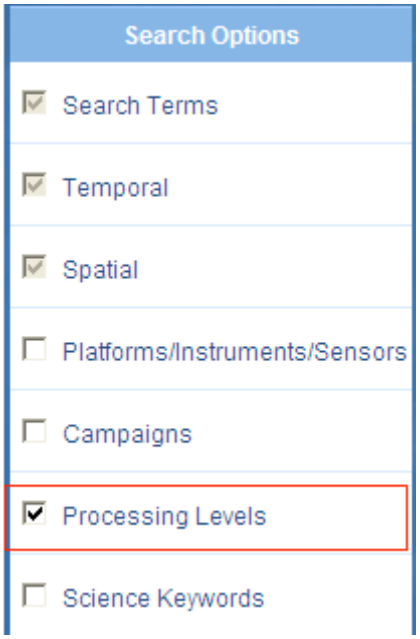


The selection of campaigns will appear at the bottom portion of the screen, underneath 'Spatial Search'. Make a selection by clicking on the desired Campaign. Click and drag the mouse to select more than one item. Based upon your selection the datasets associated will be filtered.

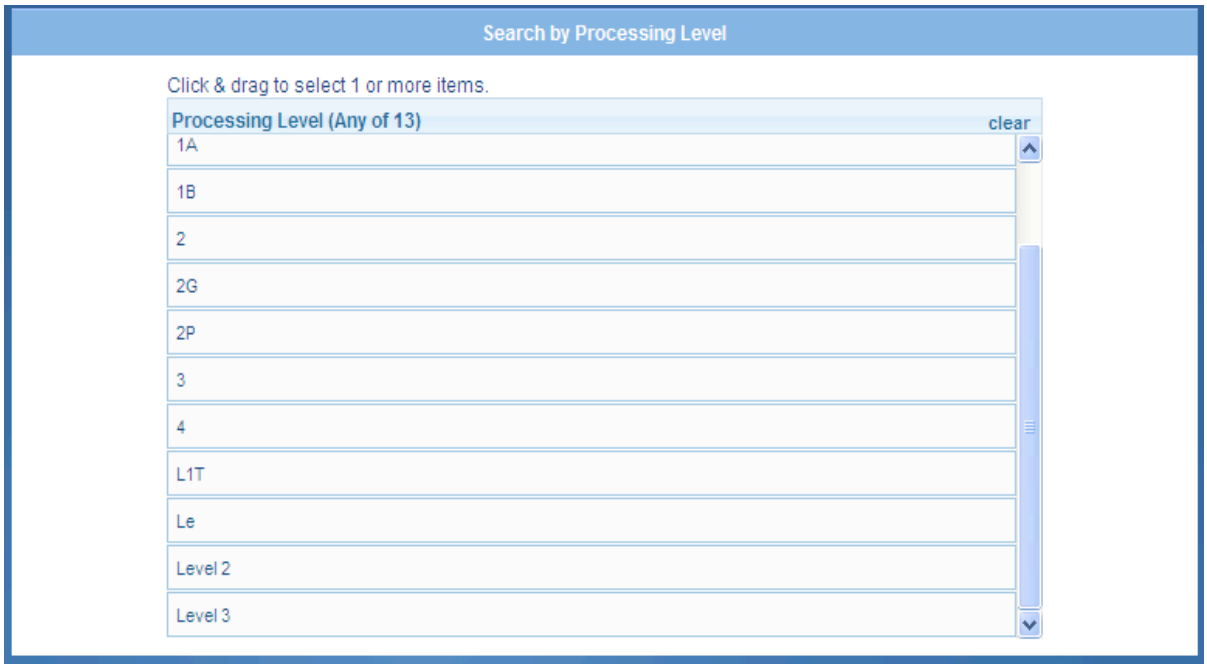


2.2.6 Processing Levels (Optional)

From the **Search Options**, select **Processing Levels**.

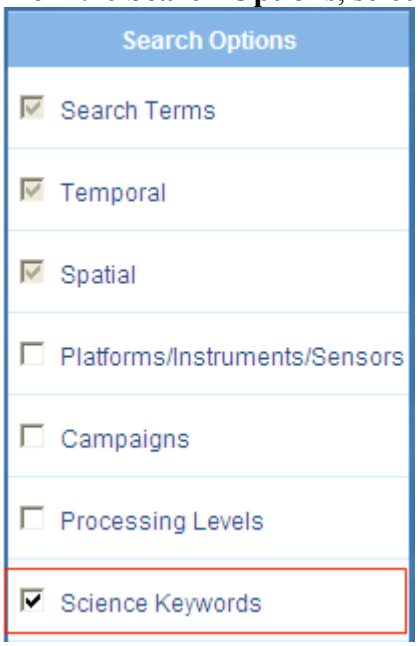


The selection of processing levels will appear at the bottom portion of the screen, underneath 'Spatial Search'. Make a selection from any of the thirteen processing levels by clicking on the desired level. Click and drag the mouse to select more than one item. Based upon your selection the datasets associated will be filtered.

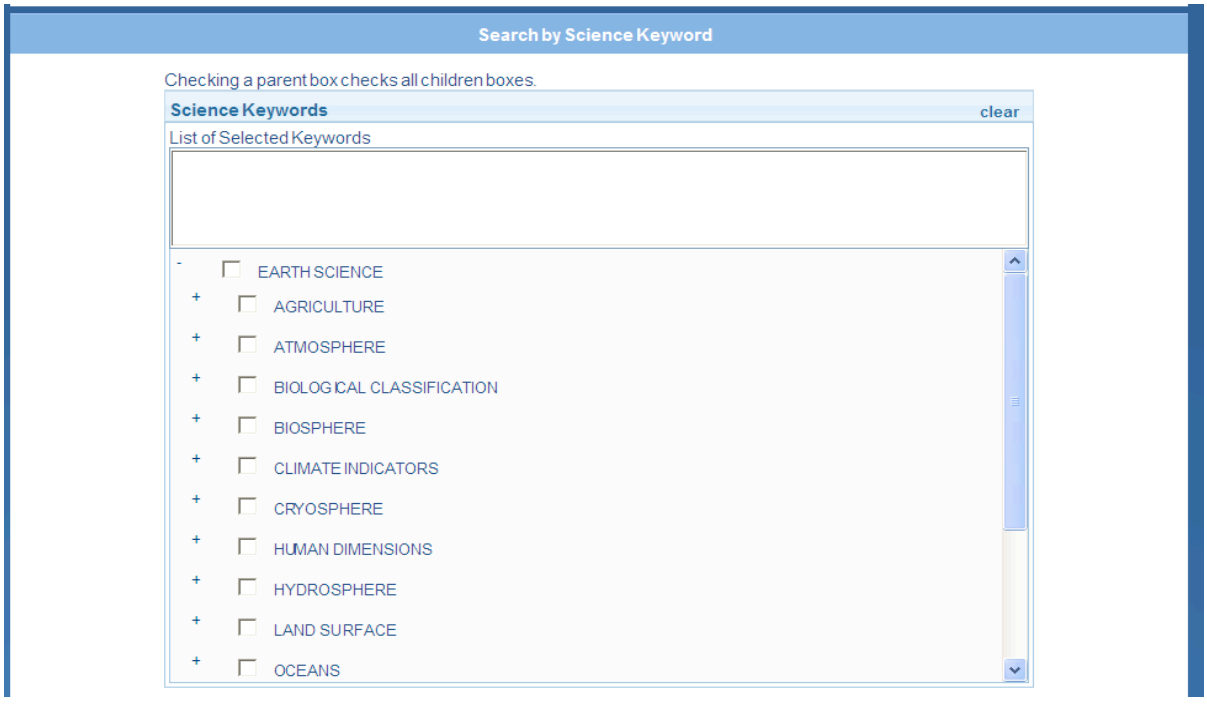


2.2.7 Science Keywords (Optional)

From the **Search Options**, select **Science Keywords**.

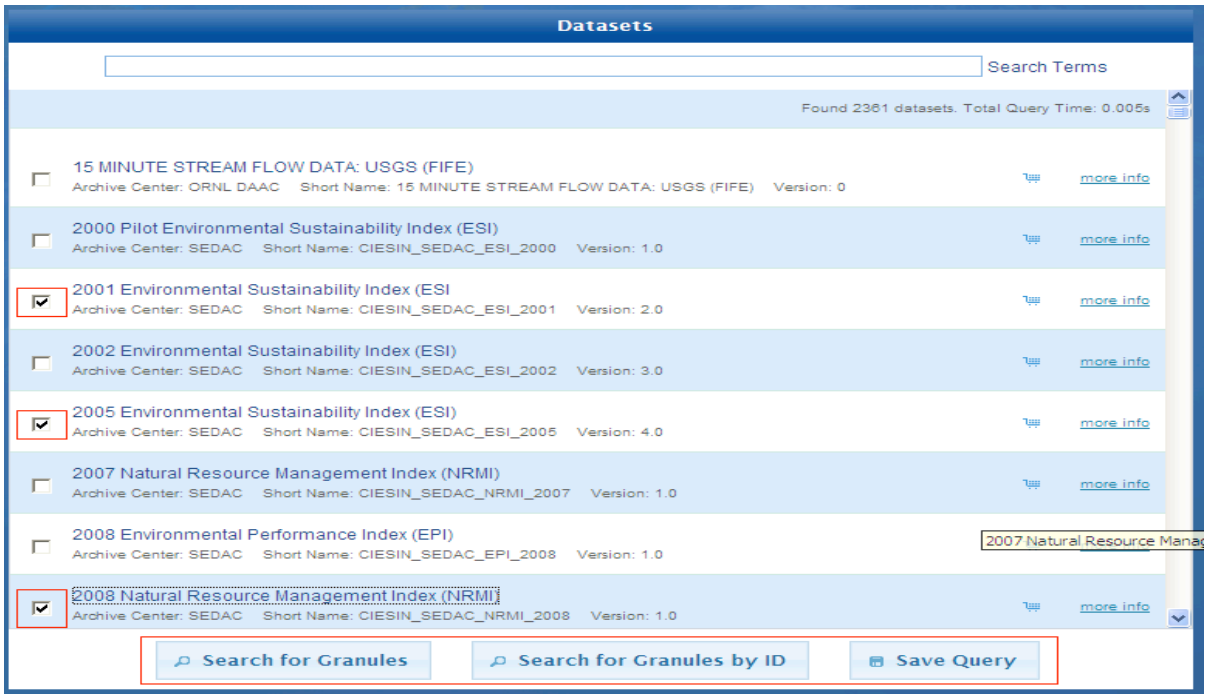


The selection of science keywords will appear at the bottom portion of the screen, underneath 'Spatial Search'. Make a selection by expanding the '+' symbol next to the keyword and clicking on the desired science keyword check box. Checking a parent box checks all children boxes. Based upon your selection the datasets associated will be filtered.

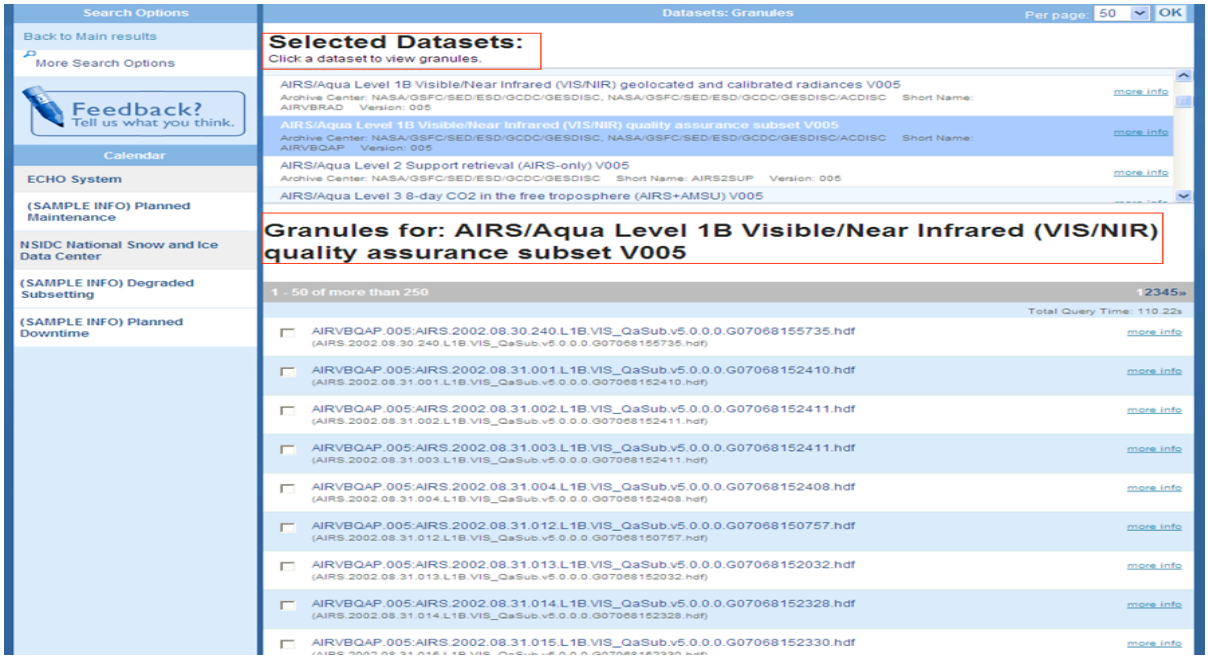


2.2.8 Search Results

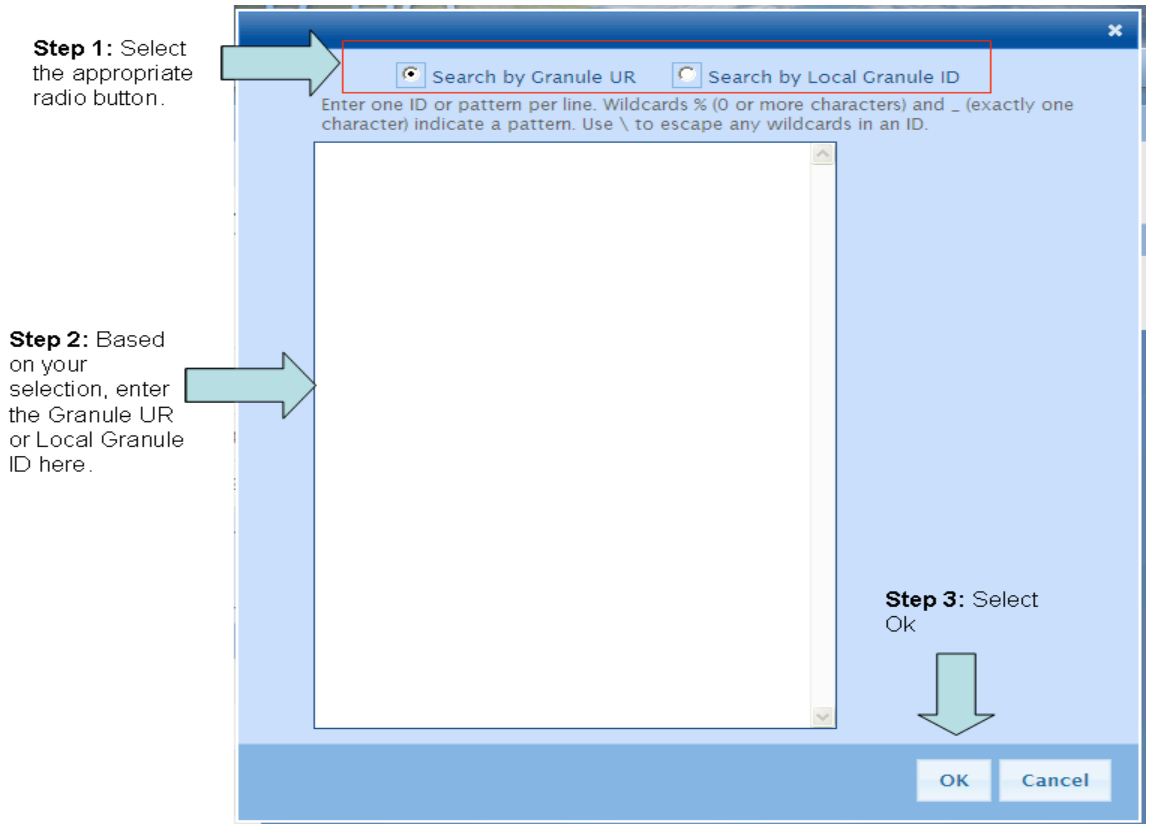
Once you have made your dataset(s) selections you can Search for Granules, Search for Granules by ID or Save Queries.



Search for Granules: Select the desired datasets and click **Search for Granules**. After the search is complete, the dataset listing will appear. To see a list of individual granules for a dataset, click the dataset name under the **Selected Datasets**.

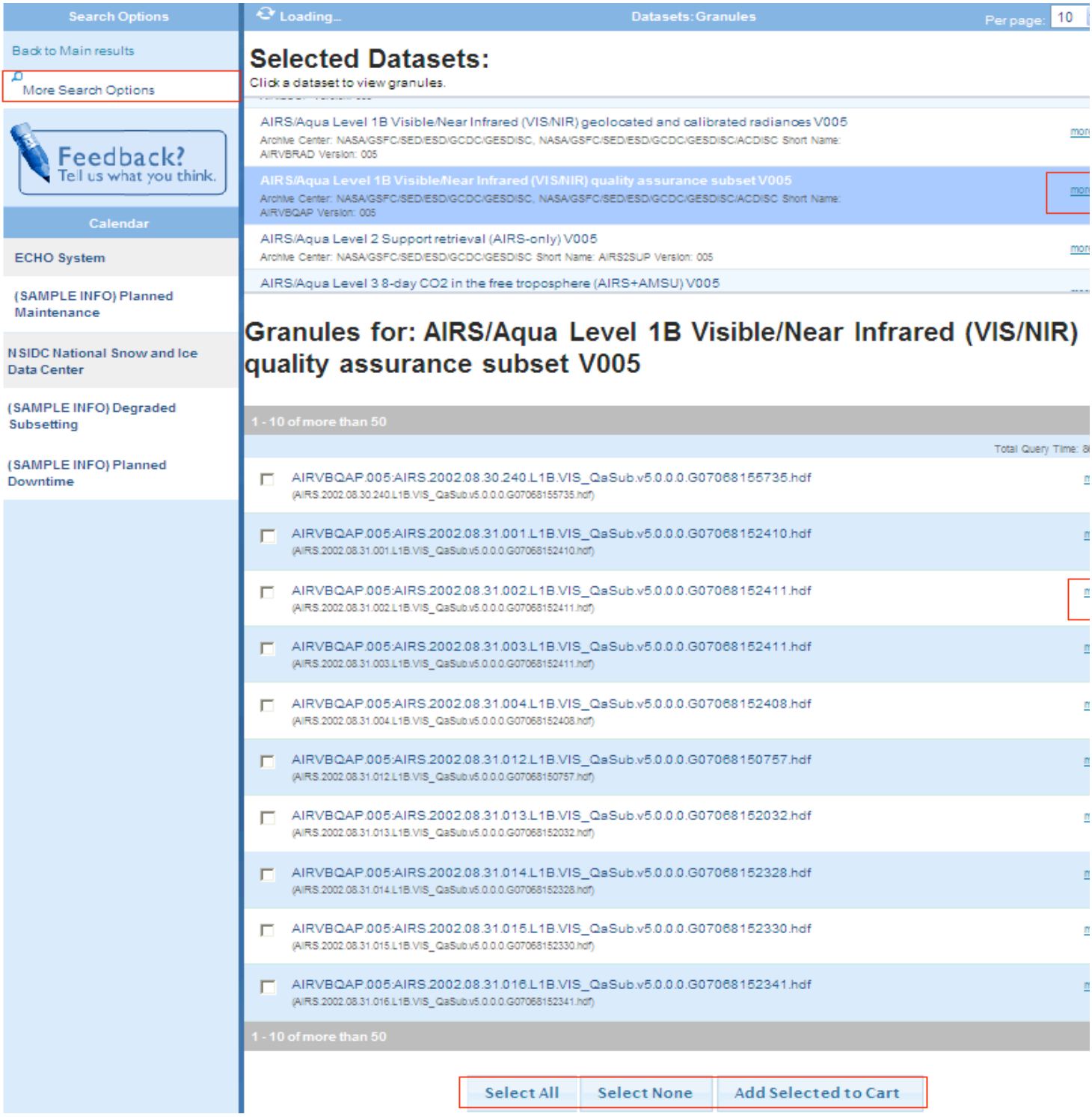


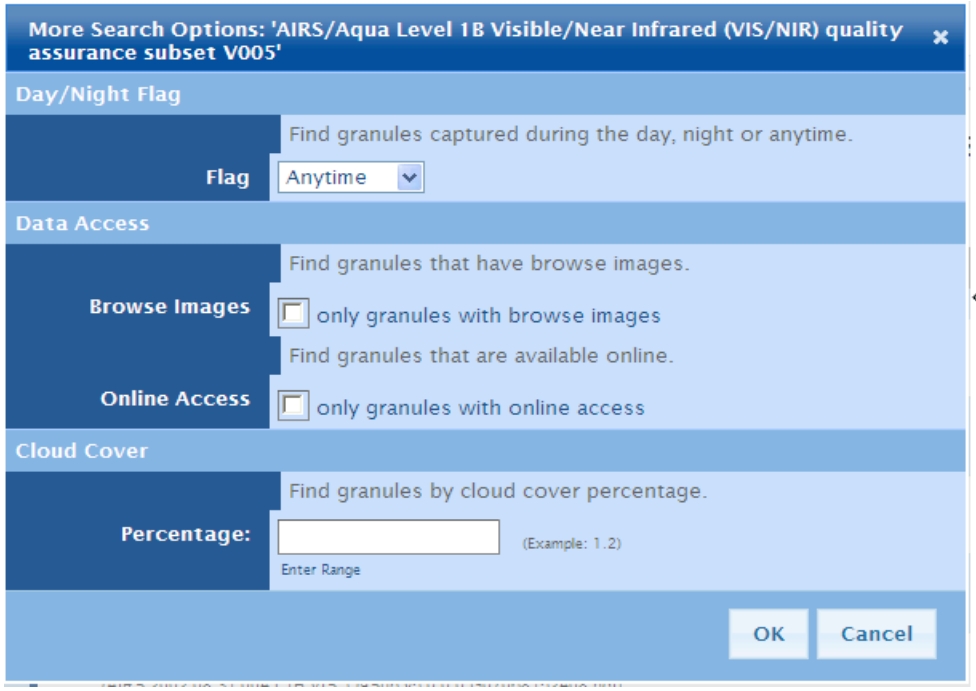
Search Granules by ID: Select the desired datasets and click **Search for Granules by ID.** The following screen should appear.

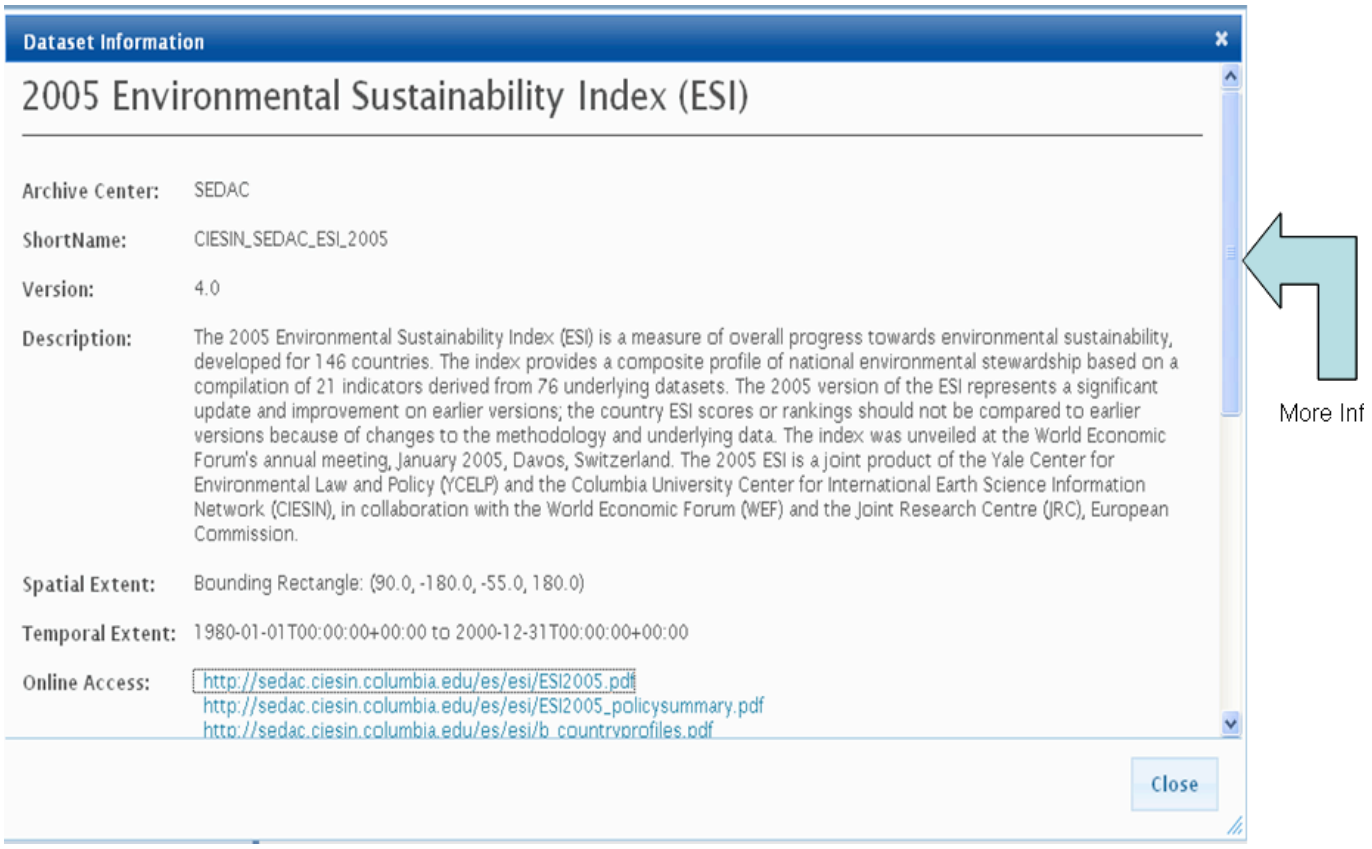


After selecting **OK,** the dataset listing will appear based on the Granule UR or Local Granule ID you entered.

Once the user is at the granule level (seen below), Reverb provides many features to assist in determining which items are wanted. Reverb provides many additional functions. These functions are implemented by selection of the appropriate button or link on the Granule Results screen. They include **Select All; Select None, Add Selected to Cart, More Search Options and More Info.**

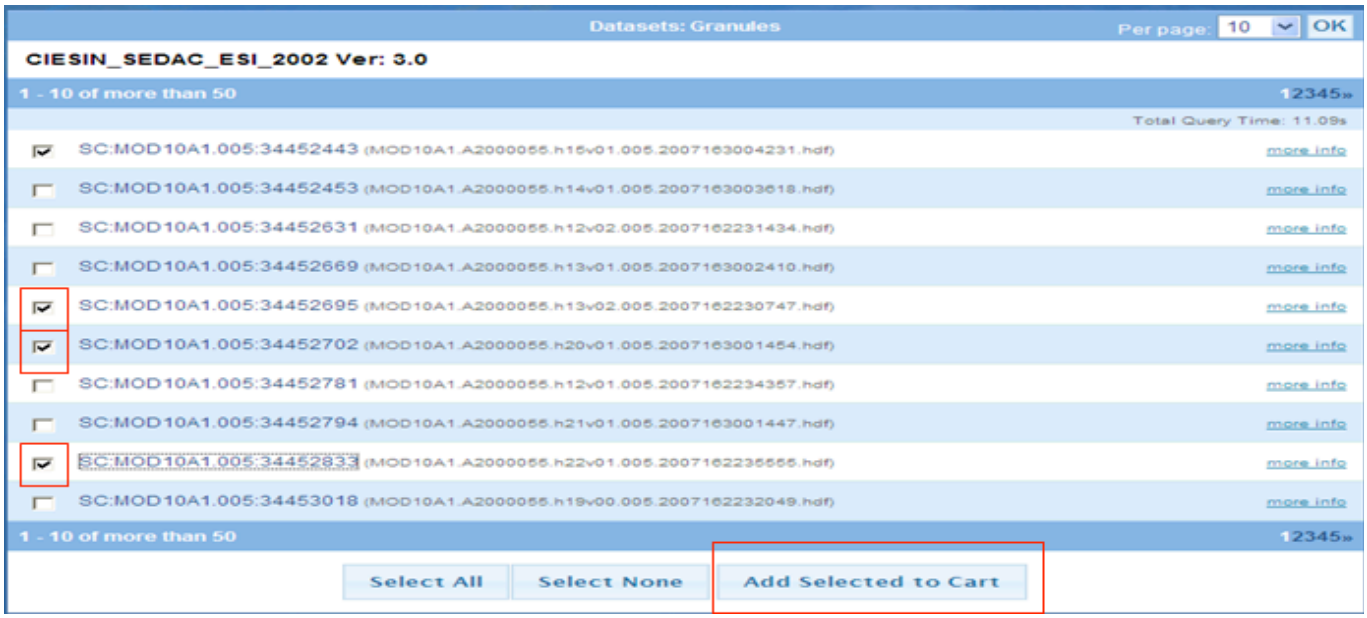



More Search Options: 'AIRS/Aqua Level 1B Visible/Near Infrared (VIS/NIR) quality assurance subset V005'
Day/Night Flag
Find granules captured during the day, night or anytime.
Flag
Anytime
Data Access
Find granules that have browse images.
Browse Images
only granules with browse images
Find granules that are available online.
Online Access
only granules with online access
Cloud Cover
Find granules by cloud cover percentage.
Percentage:
(Example: 1.2)
Enter Range
OK
Cancel
More Search Options

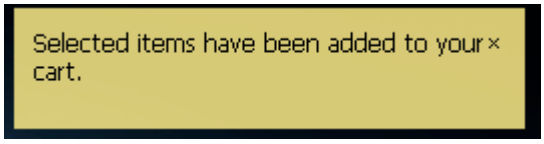

Dataset Information
2005 Environmental Sustainability Index (ESI)
Archive Center: SEDAC
ShortName: CIESIN_SEDAC_ESI_2005
Version: 4.0
Description: The 2005 Environmental Sustainability Index (ESI) is a measure of overall progress towards environmental sustainability, developed for 146 countries. The index provides a composite profile of national environmental stewardship based on a compilation of 21 indicators derived from 76 underlying datasets. The 2005 version of the ESI represents a significant update and improvement on earlier versions; the country ESI scores or rankings should not be compared to earlier versions because of changes to the methodology and underlying data. The index was unveiled at the World Economic Forum's annual meeting, January 2005, Davos, Switzerland. The 2005 ESI is a joint product of the Yale Center for Environmental Law and Policy (YCELP) and the Columbia University Center for International Earth Science Information Network (CIESIN), in collaboration with the World Economic Forum (WEF) and the Joint Research Centre (JRC), European Commission.
Spatial Extent: Bounding Rectangle: (90.0, -180.0, -55.0, 180.0)
Temporal Extent: 1980-01-01T00:00:00+00:00 to 2000-12-31T00:00:00+00:00
Online Access: http://sedac.ciesin.columbia.edu/es/esi/ESI2005.pdf
http://sedac.ciesin.columbia.edu/es/esi/ESI2005_policysummary.pdf
http://sedac.ciesin.columbia.edu/es/esi/b_countryprofiles.pdf
Close
More Inf

2.3 Ordering

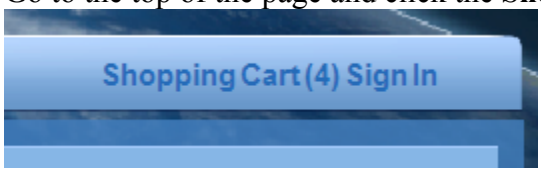
To order a granule, click in the box of the granule you wish to order and click **Add Selected to Cart**. *Note: All granules are not orderable. Some granules may be downloadable only.



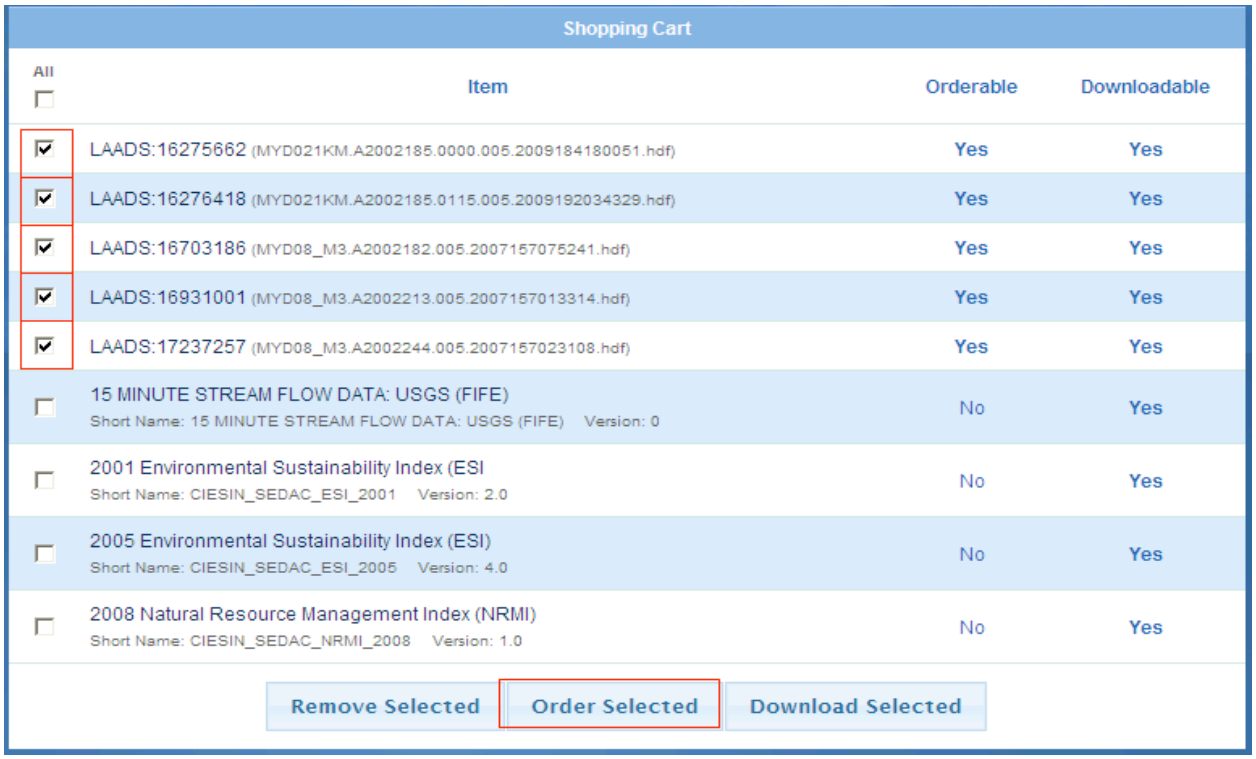
A confirmation box should appear with the following message "Selected items have been added to your cart".



Go to the top of the page and click the **Shopping Cart** button.



From the **Shopping Cart:** Click the granule(s) you wish to order and click the **Order Selected.**

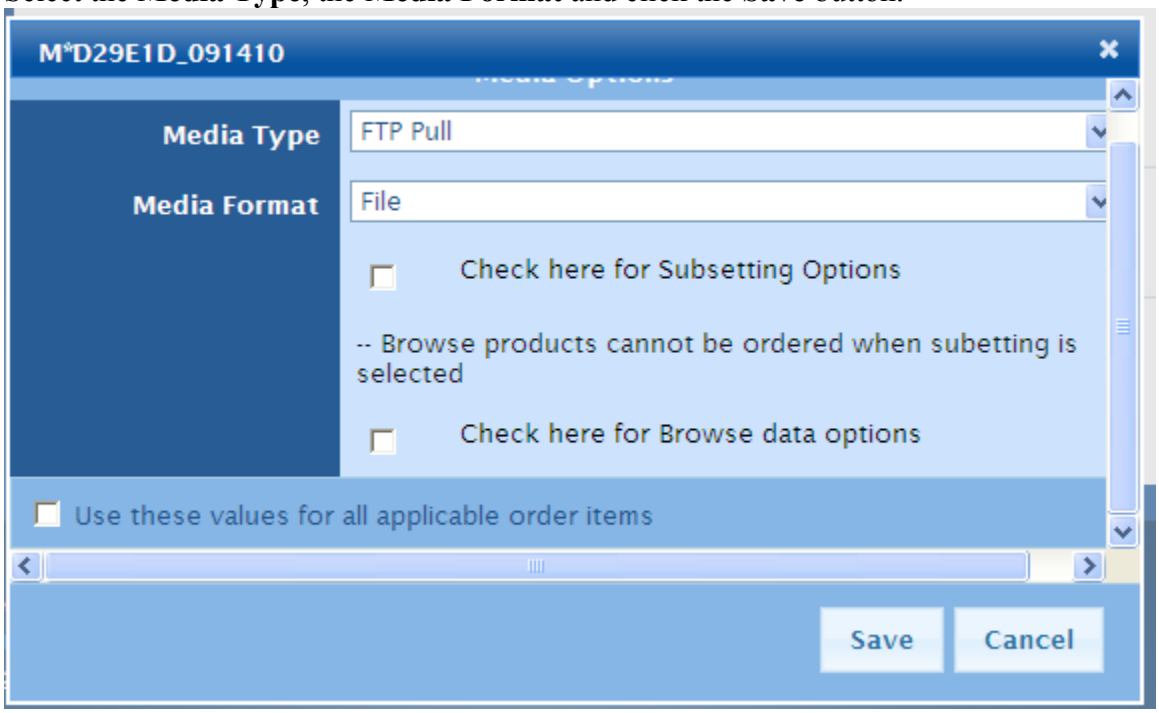


Step 1: Order Contents

The data provider distributing the granules you are interested in may require that you enter specific order information (i.e. “Order Options”). Choose the Order Options for the granule by making a selection from the combo box under each granule.

After you choose the **Order Option** click the **Set** button to apply this choice. After clicking **Set**, the **Order Options** should appear.

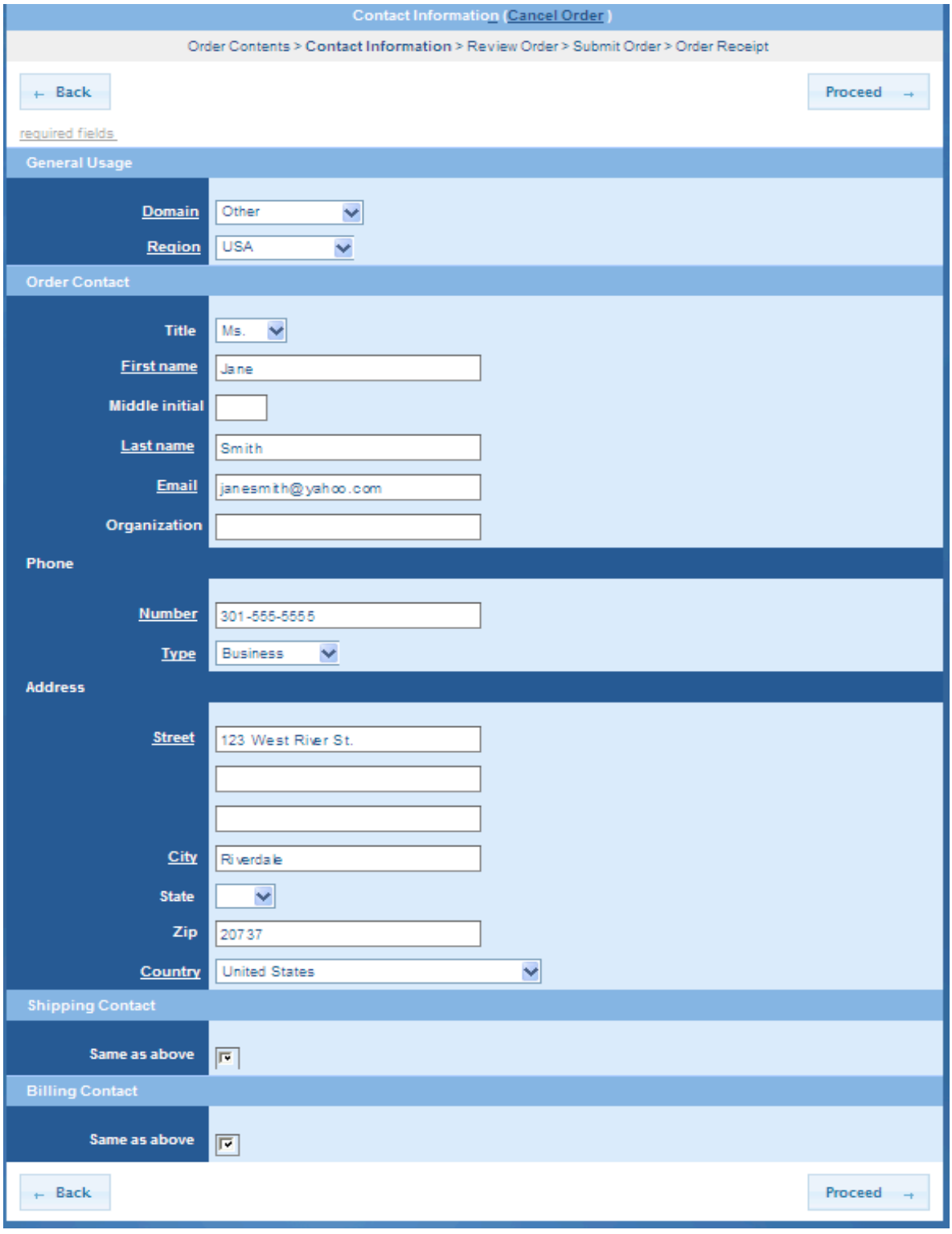
Select the **Media Type**, the **Media Format** and click the **Save** button.



Before saving you can select "Use these values for all applicable order items" to avoid repeating the process for applicable order items. After saving your **Media Options** you will return to the **Order Content** page. If needed repeat the process for any remaining granules, when finished click **Proceed**.

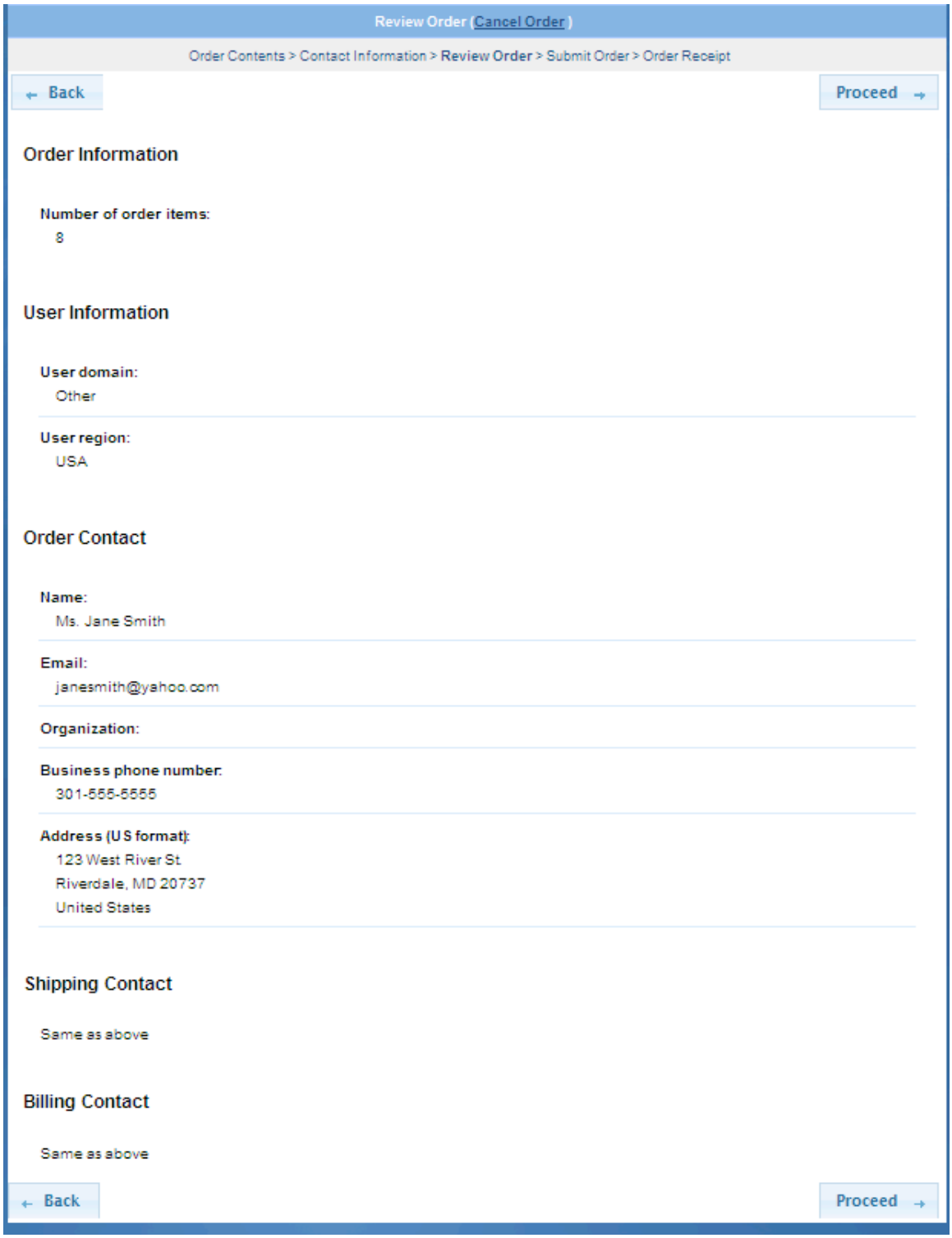
Step 2: Order Form

As a guest, you will need to complete the following **Order Form** and click **Proceed.** As a registered user, your information will be automatically populated.



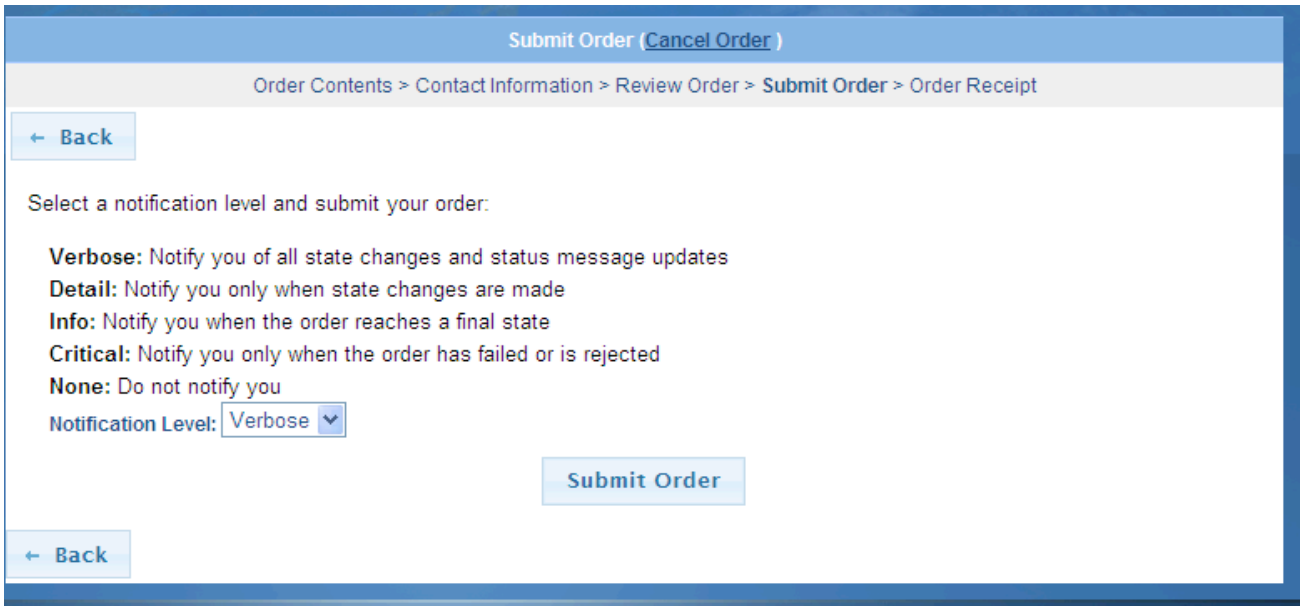
Step 3: Review Order

Review your order and ensure that the information entered is correct. After reviewing, click **Proceed**.



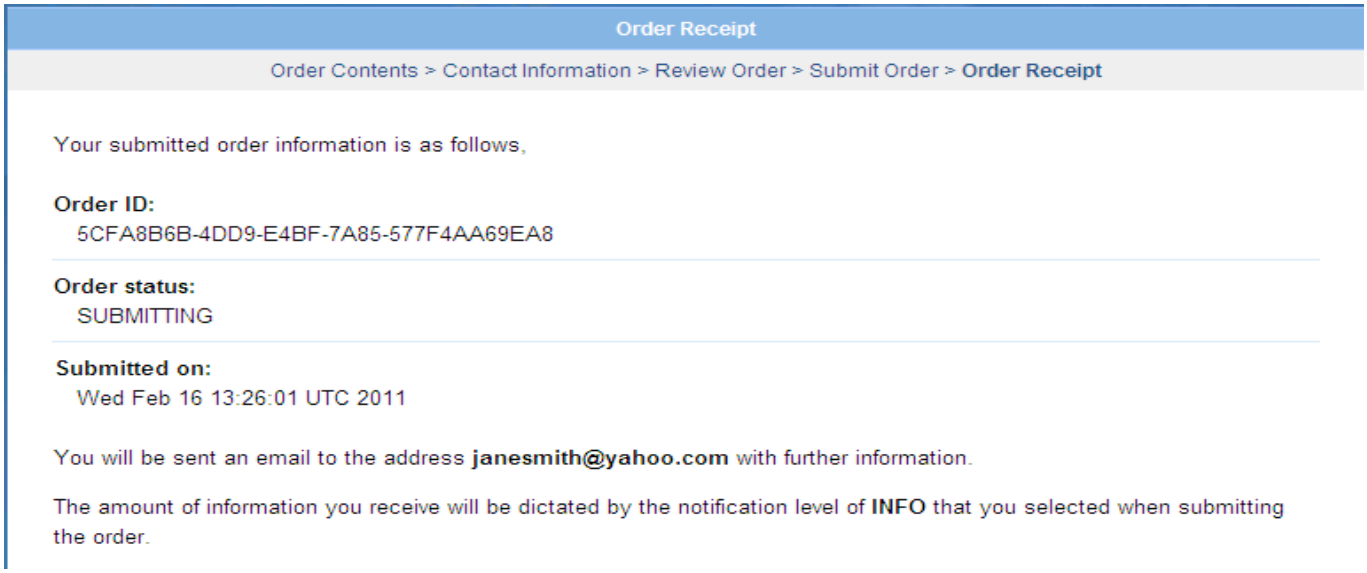
Step 4: Submit Order

Select the **Notification Level** and click the **Submit Order** button.



Step 5: Order Receipt

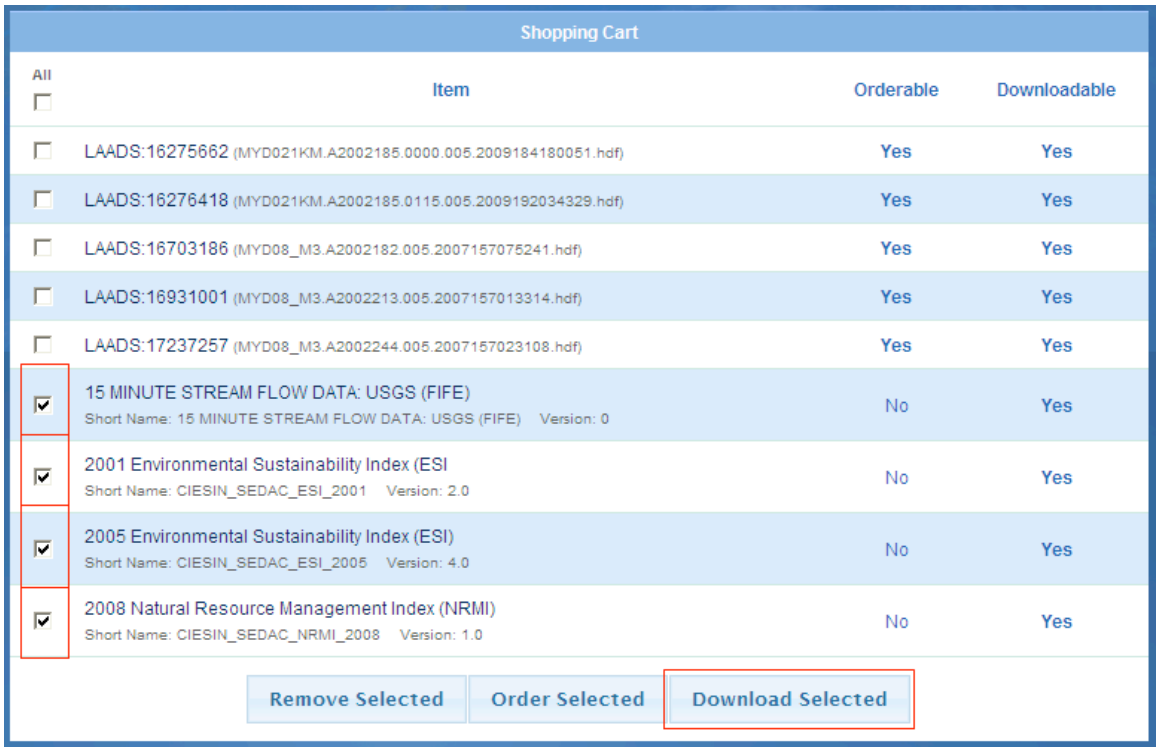
After submitting your order an **Order Receipt** page should appear. Your order has now been placed with the appropriate data centers. You will also receive an email confirming the receipt of your order from the Reverb system.



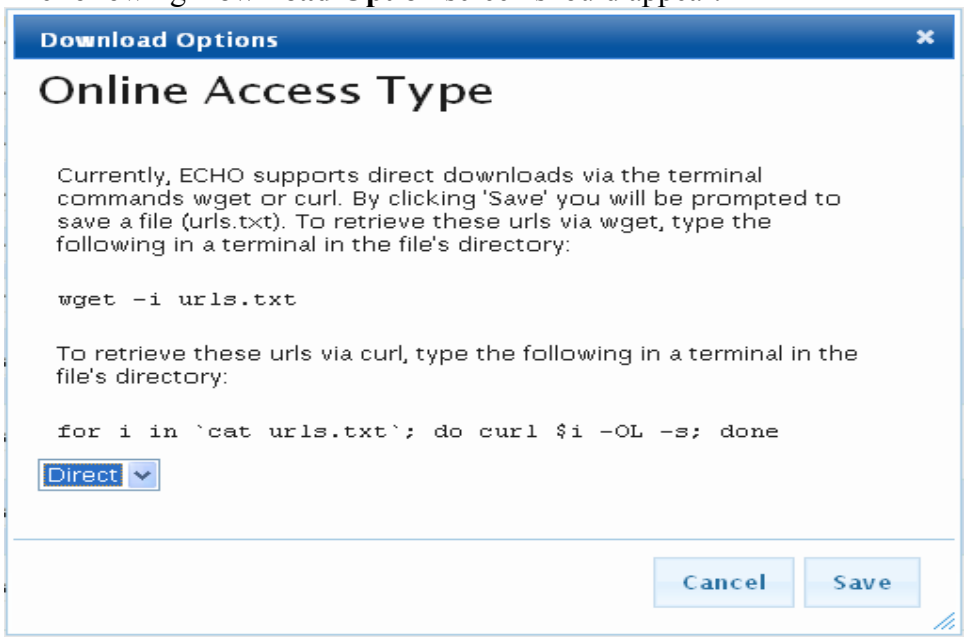
2.4 Downloading

ECHO supports direct downloads via the terminal commands wget or curl.

From the **Shopping Cart:** Select the granules that you wish to download and click **Download Selected**.



The following **Download Option** screen should appear:



Step 1: Save a file

Click the save button. You will be prompted to save a file (urls.txt)

Step 2: Retrieve urls

To retrieve the urls via wget, type the following in a terminal in the file's directory:

```
wget –i urls.txt
```

To retrieve the urls via curls, type the following in a terminal in the file's directory:

```
for i in `cat urls.txt`; do curl $i –OL –s; done
```